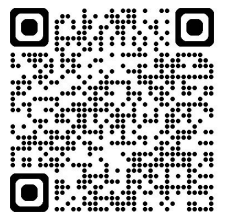


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# FOREWORD

AFFINITY BIOSCIENCES GROUP LTD is the R&D and production center of Affinity Biosciences (Affinity) brand in China. At present, the company has built a modern comprehensive laboratory, aseptic operation room, SPF animal room, and is equipped with advanced flow cytometer, laser confocal, digital scanning of pathological sections and other experimental instruments. Antibody sales channels cover the whole world, and Affinity has become an antibody service provider that integrates R&D, production, testing and sales.

Since 2018, Affinity has consecutively won the 2019 and 2020 CiteAb Award and has become the first company to ever win CiteAb Awards 'Antibody supplier to watch' a second year in a row.

In July 2022, Affinity announced the successful development of the AFfirm technology platform, which is more than 10 times more efficient than the traditional mouse monoclonal antibody platform. Since its inception, Affinity has been committed to providing the highest quality antibody products and services to researchers around the world. Affinity has developed more than 15,000 kinds of antibodies and has 16,000 kinds of peptides in stock. Among them, phospho-specific antibodies are the world calling card of Affinity brand, and the number of published citations on phospho-specific antibodies is in the world top position.

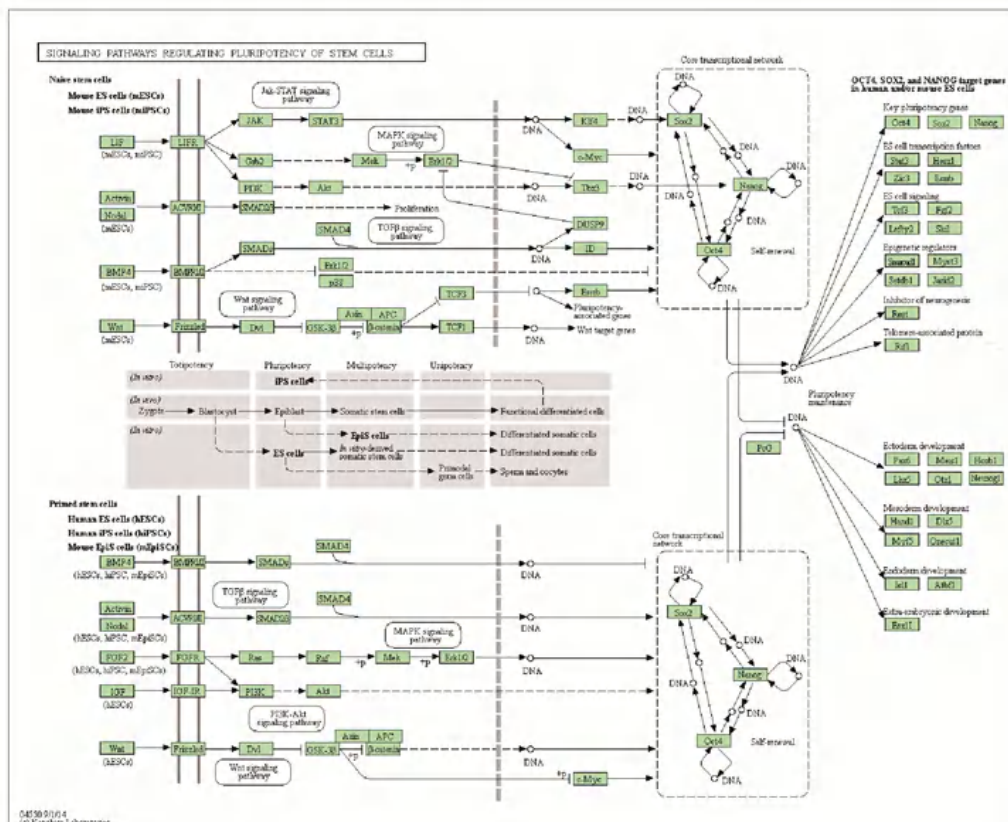


# About Affinity



Developmental Biology

Developmental biology is one of the important basic sub-disciplines of biological sciences, and the research content is interpenetrated and intricately linked with many other disciplines, especially with genetics, cell biology, molecular biology and the closest relationship. It applies modern science and technology and methods to study and analyze the processes and mechanisms of organisms from the appearance of sperm and egg, fertilization, development, growth to aging and death at the molecular, sub-microscopic and cellular levels. Tissue and organ development is controlled by the interaction of multiple signaling pathways that interact with each other to provide positional information and induce cell-specific fates. WNT (Wingless-Type MMTV Integration Site Family) interacts with TGF-Betas (transforming growth factors-B), FGFs (fibroblast growth factors), Hedgehog and Notch proteins, and other members of the secreted factor family. The WNT gene encodes a large family of secreted protein growth factors that have been found in many animals from Hydra to humans. Nearly 100 WNT genes have been isolated from different species. In humans, 19 WNT proteins have been identified that share 27%–83% amino acid sequence homology and a conserved sequence of 23 or 24 cysteine residues. During development, Wnt plays diverse roles in the control of cell fate, proliferation, migration, polarity and death. In the adult, Wnt plays an important role in maintaining homeostasis in vivo, and aberrant activation of the Wnt pathway has been associated with a variety of cancers. Wnt signaling occurs through at least three distinct intracellular pathways, including the classical (1) Wnt/B-catenin pathway, the "non-classical" Wnt/Ca<sup>2+</sup> (calcium) pathway, and the WntPCP (planar cell polarity) pathway. The major components of these three pathways include the Wnt family of secretory proteins, the Frizzled family of transmembrane receptors, CK1, Dishevelled, GSK3, APC, Axin, B-catenin, and the TCF/LEF family of transcription factors. Among them, the Wnt/B-catenin signaling pathway regulates pluripotent stem cell differentiation, organ development and regeneration, and is functionally similar to Hippo, Notch and TGF-B, etc., and also cross-links with these developmental regulation-related signaling pathways.



## • Hot-selling antibodies recommended

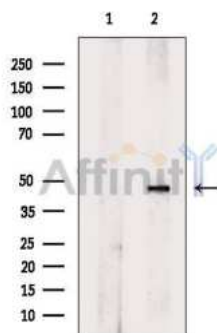
### Phospho-GSK3 beta (Ser9) Antibody (PubMed 49)

Catalog: AF2016

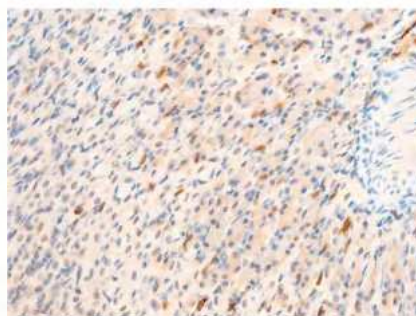
Application: WB IHC IF/ICC IP

Reactivity: Human, Mouse, Rat, Monkey

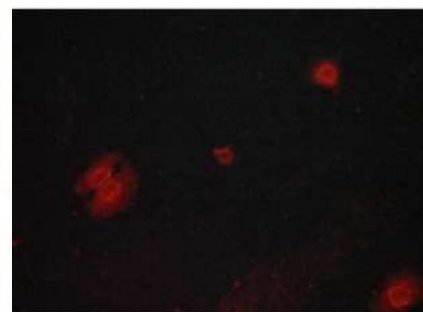
Prediction: Pig, Zebrafish, Rabbit, Dog, Xenopus



Western blot analysis of extracts from COS-7 cells, using Phospho-GSK3 beta (Ser9) Antibody. The lane on the left was treated with blocking peptide.



Af2016 at 1/100 staining mouse gastric tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22° C. An HRP conjugated goat anti-rabbit antibody was used as the secondary antibody.



Af2016 staining lovo cells by ICC/IF. Cells were fixed with PFA and permeabilized in 0.1% saponin prior to blocking in 10% serum for 45 minutes at 37° C. The primary antibody was diluted 1/400 and incubated with the sample for 1 hour at 37° C. A Alexa Fluor 594 conjugated goat polyclonal to rabbit IgG (H+L), diluted 1/600 was used as secondary antibody.

### GSK3 beta Antibody (PubMed 34)

Catalog: AF5016

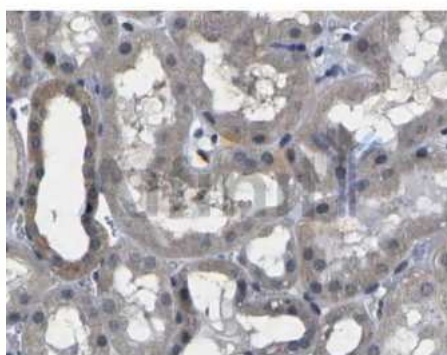
Application: WB IHC IF/ICC IP

Reactivity: Human, Mouse, Rat

Prediction: Pig, Zebrafish, Rabbit, Dog, Xenopus



Western blot analysis of extracts from various samples, using GSK3 beta Antibody. Lane 1: HeLa treated with blocking peptide; Lane 2: HeLa; Lane 3: 293; Lane 4: HepG2; Lane 5: Mouse lung.



AF5016 at 1/100 staining human kidney tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22° C. An HRP conjugated goat anti-rabbit antibody was used as the secondary antibody.



AF5016 staining lovo cells by ICC/IF. Cells were fixed with PFA and permeabilized in 0.1% saponin prior to blocking in 10% serum for 45 minutes at 37° C. The primary antibody was diluted 1/400 and incubated with the sample for 1 hour at 37° C. A Alexa Fluor 594 conjugated goat polyclonal to rabbit IgG (H+L), diluted 1/600 was used as secondary antibody.

Cat#	Des#	Reactivity	Application	Cited
AF0547	APC Ab	Human, Mouse, Rat	WB,IHC,IF/ICC	◆◆
AF6266	beta Catenin Ab	Human, Mouse, Rat	WB,IHC,IF/ICC	◆◆◆
DF6794	beta Catenin Ab	Human, Mouse, Rat	WB,IHC,IF/ICC	◆◆
BF8016	beta Catenin mAb	Human, Mouse, Rat	WB,IF/ICC	◆
AF5383	BMPR2 Ab	Human, Mouse, Rat, Monkey	WB,IHC,IF/ICC	◆◆
AF0358	c-Myc Ab	Human, Mouse, Rat	WB,IHC,IF/ICC	◆◆◆
AF6065	C-RAF Ab	Human, Mouse, Rat	WB,IF/ICC	◆◆
AF0155	ERK1/2 Ab	Human, Mouse, Rat, Pig, Zebrafish, Bovine, Horse, Sheep, Dog, Monkey, Fish	WB,IHC,IF/ICC,IP	◆◆◆◆
AF6240	ERK1/2 Ab	Human, Mouse, Rat	WB	◆◆
DF6038	FGF2 Ab	Human, Mouse, Rat	WB,IHC,IF/ICC	◆◆◆
AF6156	FGFR1 Ab	Human, Mouse, Rat	WB,IHC,IF/ICC	◆◆
AF0159	FGFR2 Ab	Human, Mouse, Rat	WB,IHC	◆◆
AF0160	FGFR3 Ab	Human, Mouse, Rat	WB,IHC,IF/ICC	◆◆
AF5016	GSK3 beta Ab	Human, Mouse, Rat	WB,IHC,IF/ICC,IP	◆◆◆
AF7814	GSK3 beta Ab	Human, Mouse, Rat	WB	◆◆
BF8003	GSK3A/B mAb	Human, Mouse, Rat	WB,IHC,IF/ICC	◆
BF0695	GSK3B Ab	Human, Mouse, Rat, Monkey	WB,IHC,IF/ICC,ELISA,FACS	◆◆
AF7545	HNF1A Ab	Human, Mouse	WB	◆◆
DF6096	IGF1 Ab	Human, Mouse, Rat	WB,IHC	◆◆
AF6125	IGF1R/Insulin Receptor Ab	Human, Mouse, Rat	WB,IHC,IF/ICC	◆◆
AF5012	JAK1 Ab	Human, Mouse, Rat, Monkey	WB,IHC,IF/ICC	◆◆
AF6022	JAK2 Ab	Human, Mouse, Rat	WB,IHC,IF/ICC	◆◆◆
BF0256	JAK3 Ab	Human, Mouse	WB,IF/ICC,ELISA,FACS	◆◆
AF6385	MEK1/2 Ab	Human, Mouse, Rat	WB,IHC,IF/ICC	◆◆◆
AF5388	Nanog Ab	Human, Mouse, Rat	WB,IHC,IF/ICC	◆◆
AF6456	p38 MAPK Ab	Human, Mouse, Rat, Pig	WB,IHC,IF/ICC	◆◆◆◆
AF6455	p38 MAPK Ab	Human, Mouse, Rat, Pig, Monkey	WB	◆◆
BF8015	p38 MAPK mAb	Human, Mouse, Rat	WB,IHC	◆◆
BF8004	p44/42 MAPK(Erk1/2) mAb	Human, Mouse, Rat	WB,IHC,ELISA	◆◆
AF8355	P-AKT1 (Ser473) Ab	Human, Mouse, Rat	WB,IF/ICC	◆◆
AF0832	P-AKT1 (Thr308) Ab	Human, Mouse, Rat	WB,IHC,IF/ICC	◆◆
AF6261	pan-AKT1/2/3 Ab	Human, Mouse, Rat, Monkey	WB,IHC,IF/ICC,IP	◆◆◆◆
AF6259	pan-AKT1/2/3 Ab	Human, Mouse, Rat, Monkey	WB,IHC,IF/ICC	◆◆
DF7208	pan-AKT1/2/3 Ab	Human, Mouse, Rat, Pig	WB,IF/ICC	◆◆
DF2989	P-beta Catenin (Ser33/Ser37/Thr41) Ab	Human, Mouse, Rat	WB,IF/ICC	◆◆
AF3266	P-beta Catenin (Ser37) Ab	Human, Mouse, Rat	WB,IHC,IF/ICC	◆◆
AF3054	P-c-Myc (Ser62) Ab	Human, Mouse, Rat	WB,IHC,IF/ICC	◆◆
AF3065	P-C-RAF (Ser338) Ab	Human, Mouse, Rat	WB,IF/ICC	◆◆
AF3240	P-ERK1/2 (Thr202) Ab	Human, Mouse, Rat	WB	◆◆
AF1015	P-ERK1/2 (Thr202/Tyr204) Ab	Human, Mouse, Rat	WB,IHC,IF/ICC	◆◆◆◆◆
AF8208	P-ERK1/2 (Thr202+Tyr204/Thr185+Tyr187) Ab	Human, Mouse, Rat, Monkey	WB,IHC	◆◆
AF1014	P-ERK1/2 (Tyr204) Ab	Human, Mouse, Rat, Bovine	WB,IHC	◆◆
AF8148	P-FGFR2 (Tyr769) Ab	Human, Mouse, Rat, Monkey	WB,IHC	◆◆
AF3335	P-GSK3 alpha/ beta (Tyr216/Tyr279) Ab	Human, Mouse, Rat	WB,IHC,IF/ICC	◆◆
AF2016	P-GSK3 beta (Ser9) Ab	Human, Mouse, Rat, Monkey	WB,IHC,IF/ICC,IP	◆◆◆

Cat#	Des#	Reactivity	Application	Cited
AF5112	PI3 kinase P110 alpha Ab	Human, Mouse, Rat	WB,IHC,IF/ICC	★★
AF6241	PI3K p85 alpha Ab	Human, Mouse, Rat	WB,IHC,IF/ICC	★★★
AF5121	PI3K p85 alpha Ab	Human, Mouse, Rat	WB,IHC	★★
AF6242	PI3K p85/p55 Ab	Human, Mouse, Rat, Monkey	WB,IHC,IF/ICC	★★
AF3125	P-IGF1R/Insulin Receptor (Tyr1161) Ab	Human, Mouse, Rat	WB,IHC,IF/ICC,IP	★★
AF2012	P-JAK1 (Tyr1022/Tyr1023)[Tyr1034/Tyr1035] Ab	Human, Mouse, Rat	WB,IHC,IF/ICC	★★
AF3022	P-JAK2 (Tyr1007)Ab	Human, Mouse, Rat	WB,IHC,IF/ICC	★★
AF3023	P-JAK2 (Tyr221) Ab	Human, Mouse, Rat	WB,IHC,IF/ICC	★★
AF3024	P-JAK2 (Tyr931) Ab	Human, Mouse, Rat	WB,IHC,IF/ICC	★★★
AF8160	P-JAK3 (Tyr981) Ab	Human, Mouse, Rat, Monkey	WB,IHC,IF/ICC	★★
AF8035	P-MEK1/2 (Ser218+Ser222/Ser222+Ser226)Ab	Human, Mouse, Rat	WB,IHC,IF/ICC	★★★
AF3457	P-p38 MAPK (Thr180) Ab	Human, Mouse, Rat	WB,IF/ICC	★★
AF4001	P-p38 MAPK (Thr180/Tyr182) Ab	Human, Mouse, Rat	WB,IHC,IF/ICC,IP	★★★★
AF3455	P-p38 MAPK (Tyr182) Ab	Human, Mouse, Rat	WB,IHC,IF/ICC	★★
AF3456	P-p38 MAPK (Tyr323) Ab	Human, Mouse, Rat	WB,IHC,IF/ICC	★★
AF0016	P-pan-AKT1/2/3 (Ser473) Ab	Human, Mouse, Rat, Monkey	WB,IHC,IF/ICC	★★★★★
AF0908	P-pan-AKT1/2/3 (Ser473) Ab	Human, Mouse, Rat, Bovine	WB,IHC,IF/ICC	★★
AF3263	P-pan-AKT1/2/3 (Ser473) Ab	Human, Mouse, Rat	WB,IHC,IF/ICC	★★
AF3262	P-pan-AKT1/2/3 (Thr308) Ab	Human, Mouse, Rat	WB,IHC,IF/ICC	★★★
AF3242	P-PI3K p85 (Tyr458)/p55 (Tyr199) Ab	Human, Mouse, Rat, Monkey	WB,IHC,IF/ICC	★★★
AF3241	P-PI3K p85 alpha (Tyr607) Ab	Human, Mouse, Rat, Pig	WB,IHC,IF/ICC	★★★★
AF8313	P-Smad1/5/9 (Ser463+Ser465) Ab	Human, Rat, Monkey	WB,IHC	★★
AF3450	P-Smad2 (Ser250) Ab	Human, Mouse, Rat	WB,IF/ICC	★★
AF8314	P-Smad2 (Ser465+Ser467) Ab	Human, Mouse, Rat	WB,IHC,IF/ICC	★★
AF3449	P-Smad2 (Ser467) Ab	Human, Mouse, Rat	WB,IHC,IF/ICC	★★
AF3367	P-Smad2/3 (Thr8) Ab	Human, Mouse, Rat	WB,IHC	★★
AF8315	P-Smad3 (Ser423+Ser425) Ab	Human, Mouse, Rat	WB,IHC,IF/ICC	★★
AF3362	P-Smad3 (Ser425) Ab	Human, Mouse, Rat	WB,IHC,IF/ICC	★★★
AF8316	P-Smad4 (Thr276) Ab	Human, Mouse, Rat	WB,IHC,IF/ICC	★★
AF3294	P-STAT3 (Ser727) Ab	Human, Mouse, Rat	WB,IHC,IF/ICC,IP	★★
AF3293	P-STAT3 (Tyr705) Ab	Human, Mouse, Rat	WB,IHC,IF/ICC,IP	★★★
AF3295	P-STAT3 (Tyr705) Ab	Human, Mouse, Rat	WB,IHC,IF/ICC,IP	★★
AF0247	RASH/RASK/RASN Ab	Human, Mouse, Rat	WB,IHC,IF/ICC	★★
AF0614	Smad1/5/9 Ab	Human, Mouse, Rat	WB,IHC,IF/ICC	★★
AF6449	Smad2 Ab	Human, Mouse, Rat	WB,IHC,IF/ICC	★★
AF6367	Smad2/3 Ab	Human, Mouse, Rat	WB,IHC,IF/ICC	★★
AF6362	Smad3 Ab	Human, Mouse, Rat	WB,IHC,IF/ICC	★★★
AF5247	Smad4 Ab	Human, Mouse, Rat	WB,IHC,IF/ICC	★★
AF5140	SOX2 Ab	Human, Mouse, Rat	WB,IHC,IF/ICC	★★
AF6294	STAT3 Ab	Human, Mouse, Rat	WB,IHC,IF/ICC	★★★
AF6293	STAT3 Ab	Human, Mouse, Rat	WB,IHC,IF/ICC	★★
AF5315	Wnt1 Ab	Human, Mouse, Rat	WB,IHC,IF/ICC	★★
DF6113	WNT3A Ab	Human, Mouse, Rat	WB,IHC,IF/ICC	★★
DF6856	Wnt5a Ab	Human, Mouse, Rat	WB,IHC	★★
DF9042	WNT7B Ab	Human, Mouse, Rat	WB,IHC,IF/ICC	★★



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