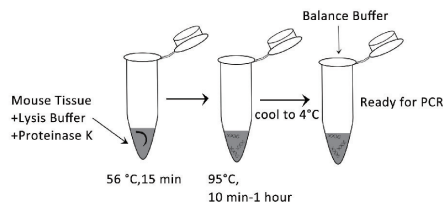
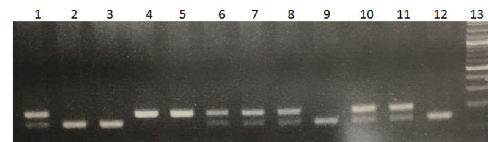


Direct Mouse Genotyping Kit

The Direct Mouse Genotyping Kit (Cat.No. K1025) is designed for fast extraction and amplification of DNA directly from mouse tissue without prior DNA purification. Optimized Lysis buffer and Balance buffer rapidly digest mice tissues to release intact genomic DNA, which is ready to-use as PCR template without further extraction. Therefore, this kit can save your time and effort by minimizing the procedure and duration of tissue digestion. Moreover, the 2×PCR Master Mix (loading dye included) guarantees accurate and efficient amplification of DNA fragment.



Validation



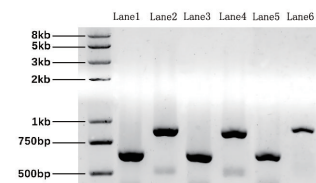
Genotyping: Lane 1-12 represent different mouse samples. Lane 13 is DNA Marker. (Lane 1, 6, 7, 8, 10 and 11 represent heterozygous mice; Lane 2, 3, 9 and 12 represent wild-type mice; Lane 4 and 5 represent homozygous mice.) Therefore, **Direct Mouse Genotyping Kit (Cat: K1025)** is a very reliable and convenient tool for genotyping.

SYBR Safe DNA Gel Stain

SYBR Safe DNA Gel Stain (Cat.No. A8743) is a very sensitive stain for visualization of DNA/RNA in agarose/acrylamide gels. It is specifically developed as a safer alternative to mutagen ethidium bromide and can utilize both blue light and UV excitation. SYBR Safe stain is provided as 10,000X concentrate in DMSO and used in the same way as ethidium bromide solution.

- Less hazardous alternative to ethidium bromide, suitable for blue-light illumination
- Enhanced cloning efficiency and less damage to DNA when illuminated with blue-light
- Improved sensitivity with reduced nonspecific background fluorescence

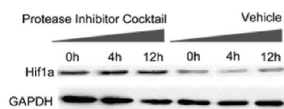
Validation



Inhibitor Cocktails

APEX BIO provides a wide range of individual protease/phosphatase inhibitors and protease/ phosphatase inhibitor cocktails to protect the integrity of proteins from multiple proteases/phosphatases for different applications. Optimized to maintain protein function during cell lysis.

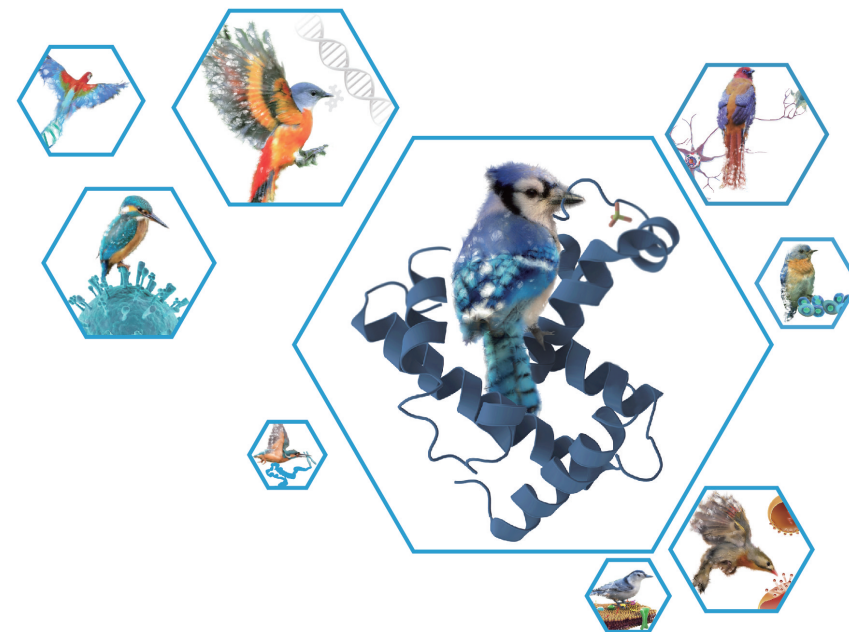
Validation



Protease Inhibitor Cocktail (K1007) was added at 1:100 (v/v) dilution to 293T cell lysates. Hif1α protein was detected using Rabbit-anti-Hif1α antibody and HRP conjugated anti-rabbit-antibody.



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Achieve Perfection

Explore the Unknown

Inhibitors/Agonists/Antagonists

Screening Libraries

Inhibitor Cocktails

Direct Mouse Genotyping Kit

SYBR Safe DNA Gel Stain

hyPerFusion High-Fidelity DNA Polymerase

Separation and Detection of Phosphorylated Protein

Cat.No.	Product Name	Application
K1007	Protease Inhibitor Cocktail (EDTA-Free, 100X in DMSO)	For use with mammalian cell and tissue extracts
K1008	Protease Inhibitor Cocktail (EDTA-Free, 200X in DMSO)	For use in tissue culture media
K1009	Protease Inhibitor Cocktail (EDTA-Free, 100X in DMSO)	For use with fungal and yeast extracts
K1010	Protease Inhibitor Cocktail (EDTA-Free, 100X in DMSO)	For use in purification of His-tag protein
K1011	Protease Inhibitor Cocktail (EDTA-Free, 100X in DMSO)	For use in plant cell and tissue extracts
K1012	Phosphatase Inhibitor Cocktail 1 (100X in DMSO)	Inhibits serine/threonine protein phosphatases and L-isozymes of alkaline phosphatases.
K1013	Phosphatase Inhibitor Cocktail 2 (100X in ddH ₂ O)	Inhibits tyrosine protein phosphatases, acid phosphatases and alkaline phosphatases.
K1014	Phosphatase Inhibitor Cocktail 3 (100X in DMSO)	Inhibits serine/threonine protein phosphatases and L-isozymes of alkaline phosphatases.
K1015	Phosphatase Inhibitor Cocktail (2 Tubes, 100X)	K1012 + K1013 (Combo Pack)

APEX BIO Technology LLC

Bioactive Compounds

APExBIO offers the largest collection of small molecule inhibitors /activators/antagonists which covers hundreds of biomolecule targets and all major signaling pathway and latest research areas.

- Potent, selective, cell permeable and well-characterized small molecule inhibitors/activators/antagonists
- Supported by detailed information describing chemical properties and biological activities
- Cited by published data from top peer-reviewed journals
- Guaranteed high quality with NMR and HPLC validation

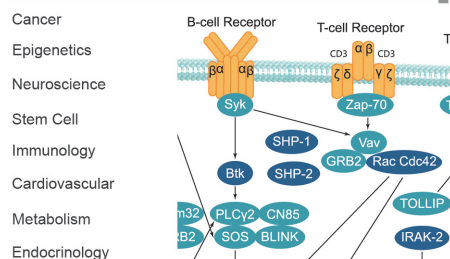
8000+ Validated Bioactive Compounds

200+ World-Exclusive Compounds

Featured Products

Cat.No.	Product Name	Target
A1902	Z-VAD-FMK	Caspase
A2585	MG-132	Proteasome
A8183	Trichostatin A (TSA)	HDAC
A1910	(+)-JQ1	Bromodomain
A8737	S63845	Bcl-2 Family
A8167	Rapamycin (Sirolimus)	mTOR
A8250	LY 294002	PI3K
A8882	THZ1	CDK
A6001	3X FLAG Peptide	Protein Purification
A3850	TAK-242	TLR

Research Areas

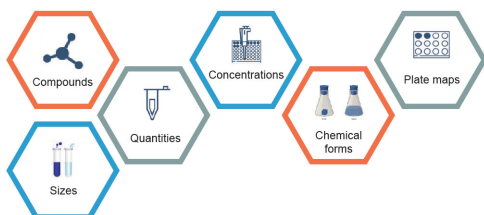


Screening Libraries

DiscoveryProbe™ Compound Libraries have over 3000 small molecules with validated biological and pharmacological activities. Ideal for drug screening (HTS & HCS), target identification, drug repurposing.

- Diverse in chemical structure and route of administration (oral /i.m/i.v injection etc.)
- Detailed files describing potency, selectivity and applications
- Board target coverage, such as FDA-approved drugs, anti-cancer drugs, natural products etc.
- Safety and effectiveness confirmed by literature, preclinical or clinical research

Build a library with your own choice of compounds, sizes, quantities, chemical forms (powder or solution) and plate maps.



28 High Performance Screening Library

3000+ Compounds In Ready-To-Use Format

DiscoveryProbe™ Compound Library

Cat.No.	Product Name	No. of Compound
L1022	Bioactive Compound Library	3014
L1021	FDA-approved Drug Library	1363
L1039	Natural Product Library	137
L1026	Neuronal Signaling Library	350
L1024	Kinase Inhibitor Library	493
L1023	Anti-cancer Compound Library	866
L1025	GPCR Compound Library	418
L1029	Epigenetics Compound Library	240
L1037	Cell Cycle Compound Library	132
L1041	JAK/STAT Compound Library	88

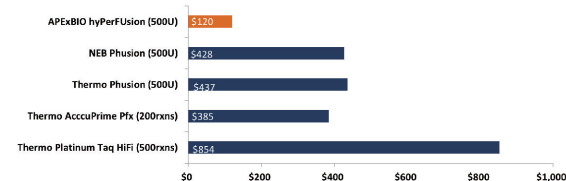
For all 28 screening libraries, please visit : www.apexbt.com

hyPerFusion™ High Fidelity DNA Polymerase

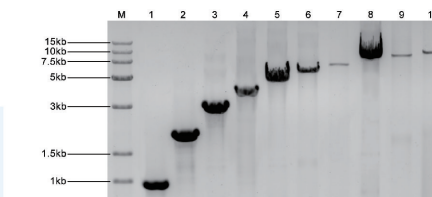
hyPerFusion™ High Fidelity DNA Polymerase (Cat.No. K1032) is consisted of a DNA-binding domain fused with a Pyrococcus-like proofreading polymerase, even for the most difficult-to-amplify target, it can produce PCR products with high accuracy and speed.

High Fidelity	52x more accurate than Taq, 6x more accurate than Pfu
Improved Yields	High product yields with minimal enzyme amounts (0.5–1U/50μL reaction)
Enhanced Robustness	Fewer reaction failures and minimal optimization
High Speed	Shorter reaction times (extension 15–30s/kb)
Versatile	Can be used for routine PCR and long or GC rich templates

Price Comparison

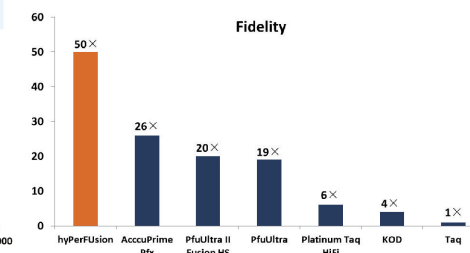


Validation



10 fragments (1–10kb) were amplified with hyPerFusion High-Fidelity DNA Polymerases, producing PCR products with high specificity and yields.

Fidelity Comparison

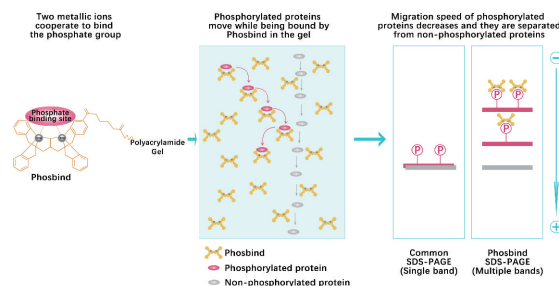


Phos Binding Reagents

Phos binding reagents are products used for separation, purification and detection of phosphorylated proteins or peptides. It is a novel phosphate-binding tag and functional molecule that specifically binds to phosphorylated ions at neutral pH (physiological pH).

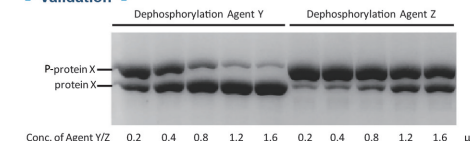
Phos binding reagent Acrylamide (Cat.No. F4002)

Separation of phosphorylated and non-phosphorylated proteins



- Recognition of all phosphorylated forms of Tyr/ Ser / Thr
- Simultaneous detection of phosphorylated / non-phosphorylated proteins using total antibody without phospho-specific antibody
- Simply add Phos binding reagent Acrylamide & MnCl₂ solution to acrylamide solution in the preparation of SDS-PAGE gel

Validation



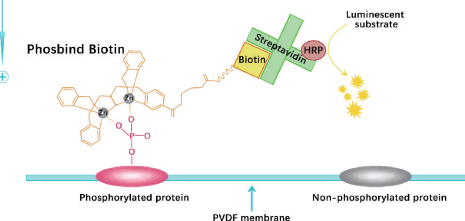
Phospho-protein X (P-protein X) were treated with Dephosphorylation Agent Y or Z for 10 min at 30°C. P-protein X and dephosphorylated protein (protein X) were then separated by 8% Phos binding SDS-PAGE gel (30 μM Phos binding reagent Acrylamide and 120 μM MnCl₂ added).

Phos binding reagent Biotin (Cat.No. F4001)

Detection of phosphorylated proteins

Phos binding reagent Biotin LC (Cat.No. F4004)

Detection and purification of phosphorylated proteins



- Blocking treatment of PVDF membrane is not necessary
- Downstream procedure such as antibody reproving and MS analysis are applicable