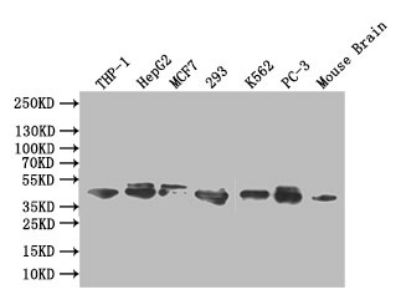
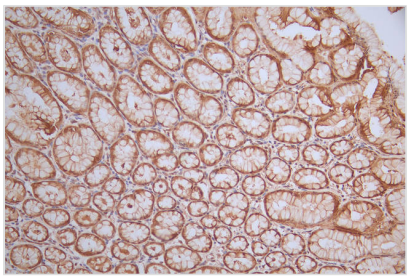
MAPK1/MAPK3 Recombinant Monoclonal Antibody

Product Code	CSB-RA984568A0HU
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	P27361/P28482
Immunogen	A synthesized peptide derived from Human MAPK1/MAPK3
Species Reactivity	Human, Mouse
Tested Applications	ELISA, WB, IHC, FC; Recommended dilution: WB:1:500-1:2000, IHC:1:50-1:200, FC:1:50-1:200
Form	Liquid
Conjugate	Non-conjugated
Storage Buffer	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purification Method	Affinity-chromatography
Isotype	Rabbit IgG
Clonality	Monoclonal
Product Type	Recombinant Antibody
Immunogen Species	Homo sapiens (Human)
Research Area	Others
Gene Names	MAPK1/MAPK3
Clone No.	29B10

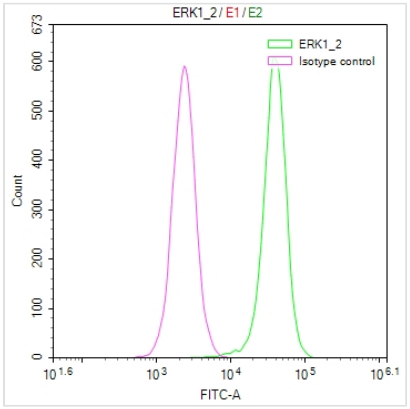
Image



Western Blot
Positive WB detected in: THP-1 whole cell lysate, HEPG2 whole cell lysate,MCF7 whole cell lysate,293 whole cell lysate,K562 whole cell lysate,PC-3 whole cell lysate, Mouse brain tissue lysate
All lanes: ERK1/2 antibody at 1:1000
Secondary
Goat polyclonal to rabbit IgG at 1/50000 dilution
Predicted band size: 42,44 kDa
Observed band size: 42,44 kDa



IHC image of CSB-RA984568A0HU diluted at 1:50 and staining in paraffin-embedded human stomach tissue performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a Goat anti-rabbit polymer IgG labeled by HRP and visualized using 0.64% DAB.



Overlay Peak curve showing Hela cells surface stained with CSB-RA984568A0HU (red line) at 1:50. Then 10% normal goat serum to block non-specific protein-protein interactions followed by the antibody (1μg/1*10^6cells) for 45min at 4?. The secondary antibody used was FITC-conjugated Goat Anti-rabbit IgG(H+L) at 1:200 dilution for 35min at 4?.Control antibody (green line) was rabbit IgG (1μg/1*10^6cells) used under the same conditions. Acquisition of >10,000 events was performed.

Description

The MAPK1/MAPK3 recombinant monoclonal antibody is produced using in vitro expression systems. The expression systems are developed by cloning the MAPK1/MAPK3 antibody DNA sequences from immunoreactive rabbits. The immunogen is a synthesized peptide derived from the human MAPK1/MAPK3 protein. Then, the MAPK1/MAPK3 antibody genes are inserted into plasmid vectors. The recombinant plasmid vectors are transfected into host cells for antibody expression. The MAPK1/MAPK3 recombinant monoclonal antibody undergoes affinity-chromatography purification and is tested in ELISA, WB, IHC, and FC applications. It reacts with both human and mouse MAPK1/MAPK3 proteins.

MAPK1 (ERK2) and MAPK3 (ERK1) are both serine/threonine kinases and are highly homologous and often have overlapping functions. Once activated by extracellular signals, such as growth factors, cytokines, and mitogens, MAPK1 and MAPK3 phosphorylate a variety of downstream target proteins, including transcription factors and other kinases, thus triggering cascade events that promote cell proliferation, regulate cell cycle progression, and participate in cell differentiation and survival.