Data Sheet (Cat.No.TMAB-01392)

Anti-Phospho-ASK1 (Thr845) Polyclonal Antibody

Product Details

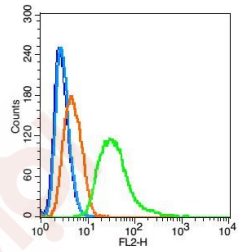
Ig Type:	IgG
Reactivity:	Human,Mouse,Rat
Molecular Weight:	Theoretical: 155 kDa. Actual: 155 kDa.
Purification:	Protein A purified

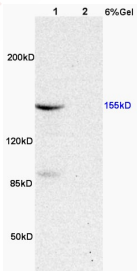
Applications

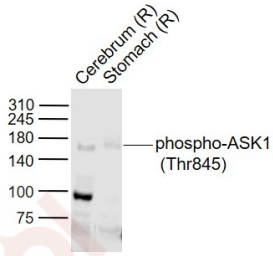
Verified Activity:	1. Blank control (blue): Hela (fixed with 2% paraformaldehyde (10 min), then permeabilized with 90% ice-cold methanol for 30 min on ice). Primary Antibody: Rabbit Anti-phospho-ASK1 (Thr845) antibody (TMAB-01392), Dilution: 0.2 µg in 100 µL 1X PBS containing 0.5% BSA; Isotype Control Antibody: Rabbit Igg (orange),used under the same conditions); Secondary Antibody: Goat anti-rabbit IgG-Pe (white blue), Dilution: 1:200 in 1 X PBS containing 0.5% BSA. 2. Sample: Lane1: Brain (Rat) Lysate at 30 µg Lane2: Heart (Rat) Lysate at 30 µg Primary: Anti-phospho-ASK1 (Thr845) (TMAB-01392) at 1:200 dilution; Secondary: HRP conjugated Goat-Anti-Rabbit Igg (secondary antibody) at 1: 3000 dilution; Predicted band size: 155 kDa Observed band size: 155 kDa 3. Sample: Lane 8: Cerebrum (Rat) Lysate at 40 µg Lane 9: Stomach (Rat) Lysate at 40 µg Primary: Anti-phospho-ASK1 (Thr845) (TMAB-01392) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 154 kDa Observed band size: 154 kDa 4. Blank control: U937. Primary Antibody (green line): Rabbit Anti-phospho-ASK1 (Thr845) antibody (TMAB-01392) Dilution: 1 µg/Test; Secondary Antibody: Goat anti-rabbit IgG-FITC Dilution: 0.5 µg/Test. Protocol The cells were fixed with 4% PFA (10 min at room temperature) and then permeabilized with 0.1% PBST for 20 min at room temperature. The cells were then incubated in 5% BSA to block non-specific protein-protein interactions for 30 min at room temperature. Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. 5. Blank control: Mouse spleen. Primary Antibody (green line): Rabbit Anti-phospho-RelB (Ser551) antibody (TMAB-01392) Dilution: 2 µg/10^6 cells; Isotype Control Antibody (orange line): Rabbit IgG. Secondary Antibody: Goat anti-rabbit IgG-AF488 Dilution: 1 µg/test.

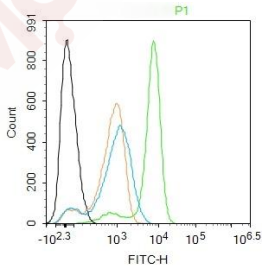
Protocol

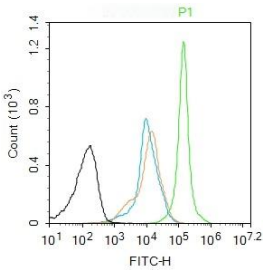
The cells were fixed with 4% PFA (10 min at room temperature) and then permeabilized with 90% ice-cold methanol for 20 min at-20°C. The cells were then incubated in 5% BSA to block non-specific protein-protein interactions for 30 min at room temperature. Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature.











Application: FCM,WB

Recommended: WB: 1:500-2000; FCM: 1μg /test

Properties

Stability & Storage:	Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	KLH conjugated Synthesised phosphopeptide: human ASK1 around the phosphorylation site of Thr845
Antigen Species:	Human
Gene ID:	4217
Uniprot ID:	Q99683
Synonyms:	MEK kinase 5;MAPKKK5;MAP3K5;ASK1 (p-Thr845);p-ASK1 (T845);ASK1;Mitogen-activated protein kinase kinase kinase 5;ASK-1;MAPK/ERK kinase kinase 5;M3K5;Apoptosis signal-regulating kinase 1;p-ASK1 (Thr845);MEKK5;MEKK 5;ASK1 (p-T845)
Biology Area:	Apoptosis,Hypertrophy,Kinases

Research Background

Mitogen-activated protein kinase (MAPK) signaling cascades include MAPK or extracellular signal-regulated kinase (ERK), MAPK kinase (MKK or MEK), and MAPK kinase kinase (MAPKKK or MEKK). MAPKK kinase/MEKK phosphorylates and activates its downstream protein kinase, MAPK kinase/MEK, which in turn activates MAPK. The kinases of these signaling cascades are highly conserved, and homologs exist in yeast, Drosophila, and mammalian cells. MAPKKK5 contains 1,374 amino acids with all 11 kinase subdomains. Northern blot analysis shows that MAPKKK5 transcript is abundantly expressed in human heart and pancreas. The MAPKKK5 protein phosphorylates and activates MKK4 (aliases SERK1, MAPKK4) in vitro, and activates c-Jun N-terminal kinase (JNK)/stress-activated protein kinase (SAPK) during transient expression in COS and 293 cells; MAPKKK5 does not activate MAPK/ERK.

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