

Basic Information

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|---------------------------|---|------------|
| Product Name | Anti-ASK1/MAP3K5 Antibody (Clone#CFB-13) | |
| Gene Name | MAP3K5 | |
| Source | Rabbit | |
| Clonality | Monoclonal | |
| Isotype | IgG | |
| Species Reactivity | human, mouse | |
| Tested Application | WB, IHC, ICC/IF, FCM | |
| Contents | 500 ug/ml; Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide, 0.4-0.5 mg/ml BSA and 50% glycerol. | |
| Immunogen | A synthesized peptide derived from human ASK1 | |
| Concentration | 500 ug/ml | |
| Purification | Affinity-chromatography | |
| Observed MW | 155 kDa | |
| Dilution Ratios | Western blot (WB): | 1:500-2000 |
| | Immunohistochemistry (IHC): | 1:50-200 |
| | Immunocytochemistry/Immunofluorescence (ICC/IF): | 1:50-200 |
| | Flow Cytometry (FCM): | 1:20 |

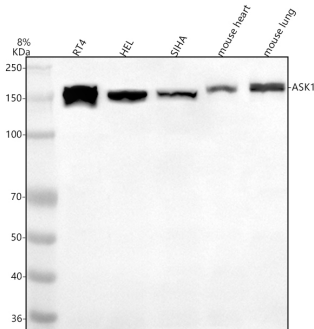
Storage

12 months from date of receipt, -20°C as supplied.

Background Information

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. [provided by RefSeq, Jul 2008]

Selected Validation Data



Western blot analysis of anti-ASK1/MAP3K5 antibody (BM4220). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: human RT4 whole cell lysates,

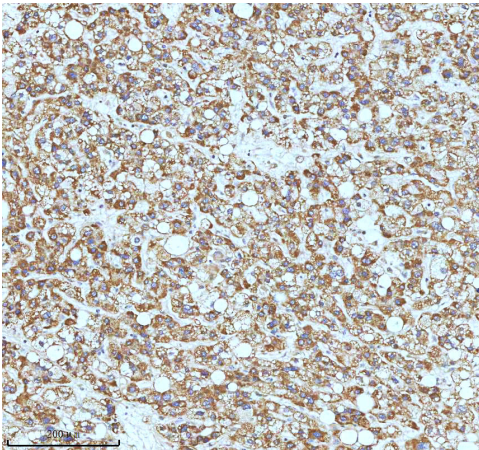
Lane 2: human HEL whole cell lysates,

Lane 3: human SIHA whole cell lysates,

Lane 4: mouse heart tissue lysates,

Lane 5: mouse lung tissue lysates.

After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-ASK1/MAP3K5 antigen affinity purified monoclonal antibody (BM4220) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for ASK1/MAP3K5 at approximately 155 kDa. The expected band size for ASK1/MAP3K5 is at 155 kDa.



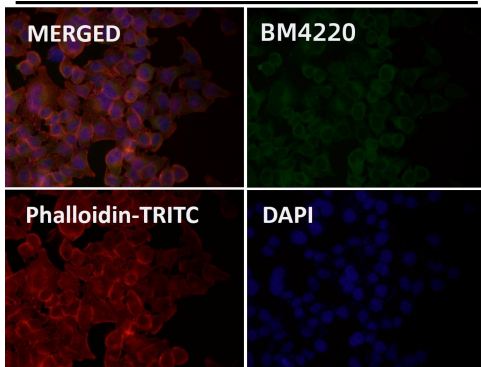
IHC analysis of ASK1/MAP3K5 using anti-ASK1/MAP3K5 antibody (BM4220)

ASK1/MAP3K5 was detected in a paraffin-embedded section of human liver cancer tissue. The tissue section was incubated with rabbit anti-ASK1/MAP3K5 Antibody (BM4220) at a dilution of 1:200 and developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB (Catalog # AR1027) as the chromogen.

Product datasheet

Anti-ASK1/MAP3K5 Antibody
(Clone#CFB-13)

Catalog Number: BM4220



Immunofluorescent analysis using the Antibody.