

Basic Information

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|---------------------------|---|--|
| Product Name | Anti-MAPK11 Antibody | |
| Gene Name | MAPK11 | |
| Source | Rabbit | |
| Clonality | Polyclonal | |
| Isotype | IgG | |
| Species Reactivity | human, mouse, rat | |
| Tested Application | WB, IHC, ICC/IF, FCM, ELISA | |
| Contents | 500 ug/ml antibody with PBS, 0.02% NaN ₃ , 1 mg/ml BSA and 50% glycerol. | |
| Immunogen | E.coli-derived human MAPK11 recombinant protein (Position: D230-Q364). | |
| Concentration | 500 ug/ml | |
| Purification | Immunogen affinity purified. | |
| Observed MW | 45 kDa | |
| Dilution Ratios | Western blot (WB): 1:500-2000 Immunohistochemistry (IHC): 1:50-400 Immunocytochemistry/Immunofluorescence (ICC/IF): 1:50-400 Flow Cytometry (Fixed): 1:50-200 Enzyme linked immunosorbent assay (ELISA): 1:100-1000 (Boiling the paraffin sections in 10mM citrate buffer, pH6.0, or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user. | |

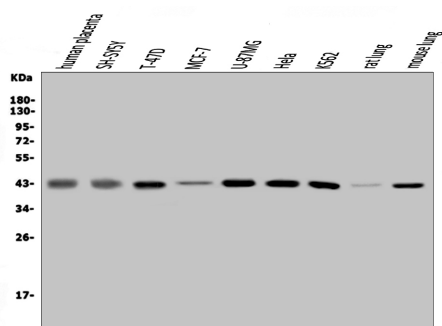
Storage

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

Background Information

Mitogen-activated protein kinase 11 is an enzyme that in humans is encoded by the MAPK11 gene. This gene encodes a member of a family of protein kinases that are involved in the integration of biochemical signals for a wide variety of cellular processes, including cell proliferation, differentiation, transcriptional regulation, and development. The encoded protein can be activated by proinflammatory cytokines and environmental stresses through phosphorylation by mitogen activated protein kinase kinases (MKKs). Alternative splicing results in multiple transcript variants.

Selected Validation Data



Western blot analysis of MAPK11 using anti-MAPK11 antibody (A03738-1).

The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: Human placenta tissue lysates,

Lane 2: Human SH-SY5Y whole cell lysates,

Lane 3: Human T-47D whole cell lysates,

Lane 4: Human MCF-7 whole cell lysates,

Lane 5: Human U-87MG whole cell lysates,

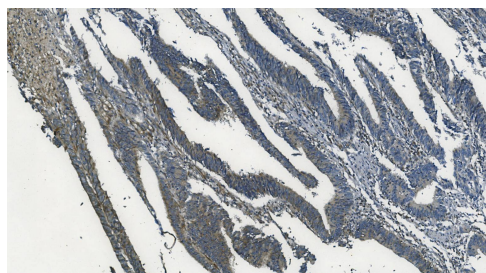
Lane 6: Human HELA whole cell lysates,

Lane 7: Human K562 whole cell lysates,

Lane 8: Rat lung tissue lysates,

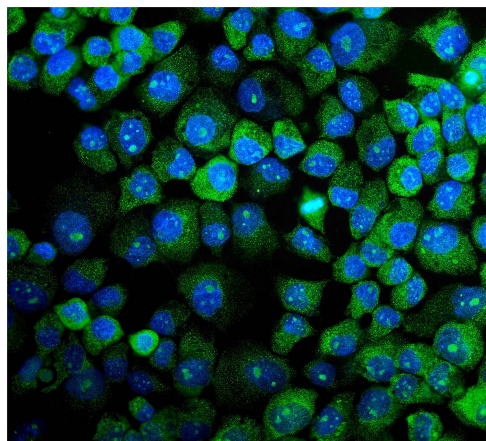
Lane 9: Mouse lung tissue lysates.

After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-MAPK11 antigen affinity purified polyclonal antibody (A03738-1) 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 MAPK11 at approximately 45 kDa. The expected band size for MAPK11 is at 41 kDa.



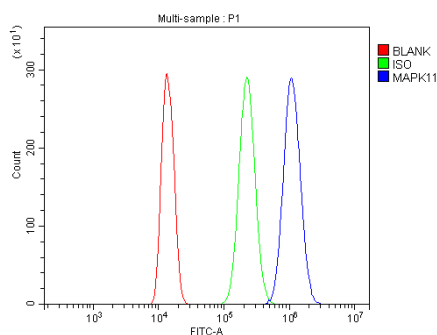
IHC analysis of MAPK11 using anti-MAPK11 antibody (A03738-1).

MAPK11 was detected in a paraffin-embedded section of human rectal cancer tissue. Biotinylated goat anti-rabbit IgG was used as secondary antibody. The tissue section was incubated with rabbit anti-MAPK11 Antibody (A03738-1) at a dilution of 1:200 and developed using Streptavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB (Catalog # AR1027) as the chromogen.



IF analysis of MAPK11 using anti-MAPK11 antibody (A03738-1).

MAPK11 was detected in an immunocytochemical section of A431 cells. The section was incubated with rabbit anti-MAPK11 Antibody (A03738-1) at a dilution of 1:100. DyLight®488 Conjugated Goat Anti-Rabbit IgG (Green) (Catalog # BA1127) was used as secondary antibody. The section was counterstained with DAPI (Catalog # AR1176) (Blue).



Flow Cytometry analysis of THP-1 cells using anti-MAPK11 antibody (A03738-1).

Overlay histogram showing THP-1 cells stained with A03738-1 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-MAPK11 Antibody (A03738-1) at 1:100 dilution for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127) was used as secondary antibody at 1:100 dilution for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG at 1:100 dilution used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.