Product datasheet

Anti-MARK3 Antibody

Catalog Number: *A05355-2*

BOSTER
antibody and ELISA experts
BOSTER BIOLOGICAL TECHNOLOGY
Building C21, 3rd to 5th Floors, Optics Valley Biopharmaceutical Accelerator,
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Basic Information

Product Name	Anti-MARK3 Antibody
Gene Name	MARK3
Source	Rabbit
Clonality	Polyclonal
Isotype	IgG
Species Reactivity	human, mouse, rat
Tested Application	WB, IHC, FCM, ELISA
Contents	500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg/ml BSA and 50% glycerol.
Immunogen	E. coli-derived human MARK3 recombinant protein (Position: H311-D648). Human MARK3 shares 95.6% amino acid (aa) sequence identity with mouse MARK3.
Concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	86 kDa
Dilution Ratios	Western blot (WB): 1:500-2000 Immunohistochemistry (IHC): 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℃ as supplied.

Background Information

MAP/microtubule affinity-regulating kinase 3 is an enzyme that in humans is encoded by the MARK3 gene. The protein encoded by this gene is activated by phosphorylation and in turn is involved in the phosphorylation of tau proteins MAP2 and MAP4. Several transcript variants encoding different isoforms have been found for this gene.

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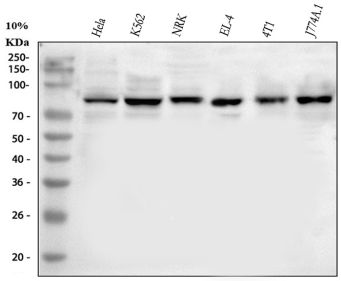
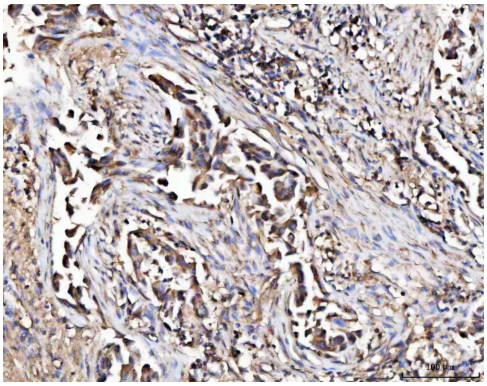
Selected Validation Data



Western blot analysis of anti-MARK3 antibody (A05355-2). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: human Hela whole cell lysates,
Lane 2: human K562 whole cell lysates,
Lane 3: rat NRK whole cell lysates,
Lane 4: mouse EL-4 whole cell lysates,
Lane 5: mouse 4T1 whole cell lysates,
Lane 6: mouse J774A.1 whole cell lysates.
After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-MARK3 antigen affinity purified polyclonal antibody (A05355-2) 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 MARK3 at approximately 80 kDa. The expected band size for MARK3 is at 80 kDa.



IHC analysis of MARK3 using anti-MARK3 antibody (A05355-2). MARK3 was detected in a paraffin-embedded section of human lung cancer tissue. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB (Catalog # AR1027) as the chromogen.

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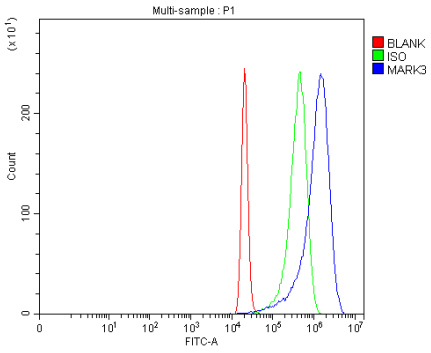

Flow Cytometry analysis of 293T cells using anti-MARK3 antibody (A05355-2).
Overlay histogram showing 293T cells stained with A05355-2 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-MARK3 Antibody (A05355-2, 1:100). Fluoro488 conjugated goat anti-rabbit IgG (BA1127, 1:100) was used as secondary antibody. Isotype control antibody (Green line) was rabbit IgG (Catalog # BA1045) (1:100) used under the same conditions. Unlabelled sample (Red line) was also used as a control.