

For Research Use Only

MKNK2 Recombinant antibody, PBS Only (Detector)

Catalog Number: 83235-1-PBS



Basic Information

Catalog Number: 83235-1-PBS	GenBank Accession Number: BC018345	Purification Method: Protein A purification
Size: 1mg/ml	GeneID (NCBI): 2872	CloneNo.: 240045B3
Source: Rabbit	UNIPROT ID: Q9HBH9	
Isotype: IgG	Full Name: MAP kinase interacting serine/threonine kinase 2	
Immunogen Catalog Number: AG10546	Calculated MW: 465 aa, 52 kDa	
	Observed MW: 47-52 kDa	

Applications

Tested Applications:
IF/ICC, FC (Intra), Cytometric bead array, Indirect
ELISA

Species Specificity:
human

Background Information

MKNK2 (MAP kinase-interacting serine/threonine-protein kinase 2) is also named as GPRK7, MNK2 and belongs to the CAMK Ser/Thr protein kinase family. It has a conserved C-terminal Erk-interacting domain, a catalytic domain with homology to the calcium/calmodulin-dependent family of kinases, and putative MAP kinase phosphorylation sites located within the T loop of the kinase domain (PMID:9155017). The breast cancer cells express either an uncharacterized form of MNK2 or a cross-reacting MNK2-like protein with the band of 72-75 kDa by western blot (PMID:17130135). MKNK2 has 2 isoforms with the molecular mass of 52 kDa and 47 kDa.

Storage

Storage:
Store at -80°C.
The product is shipped with ice packs. Upon receipt, store it immediately at -80°C

Storage Buffer:
PBS Only

For technical support and original validation data for this product please contact:

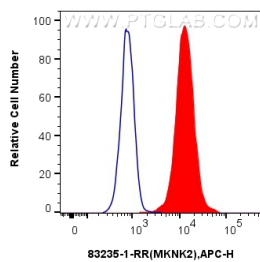
T: 4006900926

E: Proteintech-CN@ptglab.com

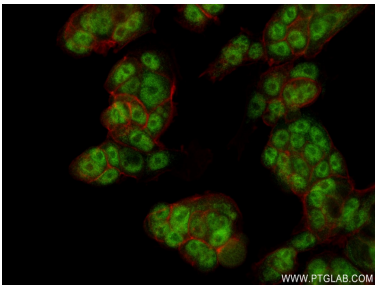
W: ptgcn.com

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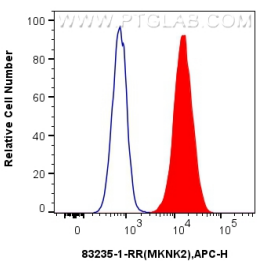
Selected Validation Data



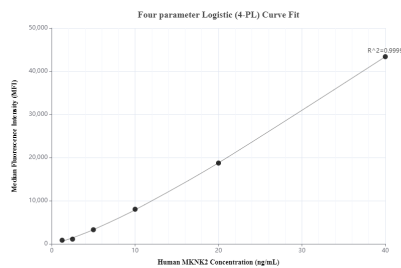
1x10⁶ HeLa cells were intracellularly stained with 0.25 ug MKNK2 Recombinant antibody (83235-1-RR, Clone:240045B3) and APC-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)(red), or 0.25 ug Isotype Control (blue). Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011). This data was developed using the same antibody clone with 83235-1-PBS in a different storage buffer formulation.



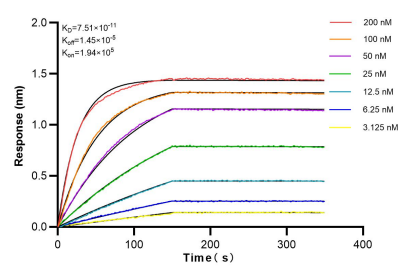
Immunofluorescent analysis of (4% PFA) fixed MCF-7 cells using MKNK2 antibody (83235-1-RR, Clone: 240045B3) at dilution of 1:250 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red). This data was developed using the same antibody clone with 83235-1-PBS in a different storage buffer formulation.



1x10⁶ MCF-7 cells were intracellularly stained with 0.25 ug MKNK2 Recombinant antibody (83235-1-RR, Clone:240045B3) and APC-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)(red), or 0.25 ug Isotype Control (blue). Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011). This data was developed using the same antibody clone with 83235-1-PBS in a different storage buffer formulation.



Cytometric bead array standard curve of MP00216-2, MKNK2 Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 83235-4-PBS. Detection antibody: 83235-1-PBS. Standard: Ag10546. Range: 1.25-40 ng/mL.



Biolayer interferometry (BLI) kinetic assays of 83235-1-RR against Human MKNK2 were performed. The affinity constant is 75.1 pM.