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NRBP Antibody (N-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP8085a

Product Information

Application	WB, IHC-P, E
Primary Accession	Q99J45
Other Accession	Q4R8X0, Q9UHY1
Reactivity	Human, Mouse
Predicted	Monkey, Rat, Bovine, Canine, Rabbit, Chicken
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB3336
Calculated MW	59866
Antigen Region	47-76

Additional Information

Gene ID	192292
Other Names	Nuclear receptor-binding protein, HLS7-interacting protein kinase, MLF1 adapter molecule, Nrbp1, Madm, Nrbp
Target/Specificity	This NRBP antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 47-76 amino acids from the N-terminal region of human NRBP.
Dilution	WB~~1:1000 IHC-P~~1:100~500 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	NRBP Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	Nrbp1
Synonyms	Madm, Nrbp

Function	Required for embryonic development (PubMed: 22510880). Plays a role in intestinal epithelial cell fate and proliferation, thereby involved in the architectural development of the intestine potentially via the regulation of Wnt-responsive genes (PubMed:22510880). May play a role in subcellular trafficking between the endoplasmic reticulum and Golgi apparatus through interactions with the Rho-type GTPases (By similarity).
Cellular Location	Cytoplasm, cell cortex. Endomembrane system. Cell projection, lamellipodium. Note=Colocalizes with activated RAC3 to endomembranes and at the cell periphery in lamellipodia
Tissue Location	Expressed in Paneth, enteroendocrine and precursor goblet cell lineages in the intestine.

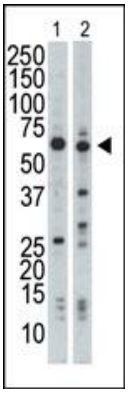
Background

Protein kinases are enzymes that transfer a phosphate group from a phosphate donor, generally the g phosphate of ATP, onto an acceptor amino acid in a substrate protein. By this basic mechanism, protein kinases mediate most of the signal transduction in eukaryotic cells, regulating cellular metabolism, transcription, cell cycle progression, cytoskeletal rearrangement and cell movement, apoptosis, and differentiation. With more than 500 gene products, the protein kinase family is one of the largest families of proteins in eukaryotes. The family has been classified in 8 major groups based on sequence comparison of their tyrosine (PTK) or serine/threonine (STK) kinase catalytic domains. The STE group (homologs of yeast Sterile 7, 11, 20 kinases) consists of 50 kinases related to the mitogen-activated protein kinase (MAPK) cascade families (Ste7/MAP2K, Ste11/MAP3K, and Ste20/MAP4K). MAP kinase cascades, consisting of a MAPK and one or more upstream regulatory kinases (MAPKKs) have been best characterized in the yeast pheromone response pathway. Pheromones bind to Ste cell surface receptors and activate yeast MAPK pathway.

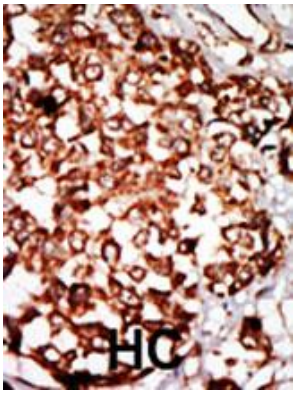
References

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Images



Western blot analysis of anti-NRBP Pab (Cat. #AP8085a) in HL-60 cell lysate (Lane 1) and mouse brain tissue lysate (Lane 2). NRBP (arrow) was detected using purified Pab. Secondary HRP-anti-rabbit was used for signal visualization with chemiluminescence.



Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma; HC = hepatocarcinoma.

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