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MOG1 Rabbit pAb

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Catalog # AP56800

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q9HD47
Reactivity	Rat, Mouse
Predicted	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	20448
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human MOG1
Epitope Specificity	81-150/186
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Nucleus. Cytoplasm. Shuttles between the nucleus and cytoplasm.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	This gene encodes a protein that has been shown to function as a guanine nucleotide release factor in mouse and to regulate the expression and function of the Nav1.5 cardiac sodium channel in human. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Apr 2010]

Additional Information

Gene ID	29098
Other Names	Ran guanine nucleotide release factor, RanGNRF, Ran-binding protein MOG1, RANGRF, MOG1, RANGNRF
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

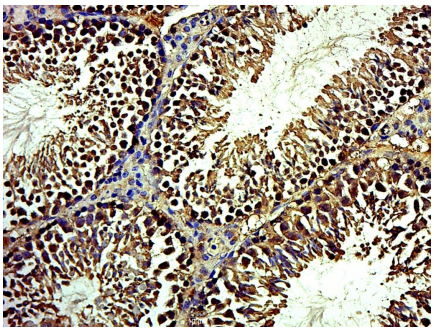
Name	RANGRF
Synonyms	MOG1, RANGNRF

Function	May regulate the intracellular trafficking of RAN (PubMed: 11290418). Promotes guanine nucleotide release from RAN and inhibits binding of new GTP by preventing the binding of the RAN guanine nucleotide exchange factor RCC1 (PubMed:29040603). Regulates the levels of GTP-bound RAN in the nucleus, and thereby plays a role in the regulation of RAN-dependent mitotic spindle dynamics (PubMed:29040603). Enhances the expression of SCN5A at the cell membrane in cardiomyocytes (PubMed:18184654, PubMed:21621375, PubMed:23420830).
Cellular Location	Nucleus. Cytoplasm, perinuclear region. Cytoplasm. Cell membrane; Peripheral membrane protein; Cytoplasmic side. Note=May shuttle between the nucleus and cytoplasm.
Tissue Location	Isoform 1 and isoform 2 are ubiquitously expressed (PubMed:11290418). Detected in heart and brain (PubMed:21621375)

Background

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Images



Paraformaldehyde-fixed, paraffin embedded (Mouse testis); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (MOG1) Polyclonal Antibody, Unconjugated (AP56800) at 1:500 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.