

MAL2 Rabbit pAb

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Catalog # AP58622

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q969L2
Reactivity	Human
Predicted	Rat, Pig, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	19125
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human MAL2
Epitope Specificity	21-120/176
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	Cell membrane. Apical cell membrane. Endomembrane system. Cytoplasm > perinuclear region. Associated with lipid rafts. In polarized epithelial cells, restricted to the apical surface. In hepatocytes, as well as in polarized hepatoma HepG2 cells, found in the canalicular membrane, equivalent to the apical surface, beneath the canalicular actin cytoskeleton. In non-polarized HepG2 cells, distributed to the perinuclear region.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	The MARVEL domain is a 130 amino acid motif that contains four transmembrane helices, both of which have cytoplasmic N- and C-terminal regions. MARVEL domain-containing proteins are thought to participate in tight junction regulation, the biogenesis of vesicular transport carriers and in cholesterol-rich membrane apposition events. MAL2 (mal, T-cell differentiation protein 2) is a 176 amino acid multi-pass membrane protein that is associated with lipid rafts and contains one MARVEL domain. Expressed predominately in liver, kidney and lung, MAL2 functions as a member of the polarized machinery transport system and is required for transcytosis, a transporter pathway used to deliver membrane-bound cargo from perinuclear endosomes to the apical surface in a raft-dependent manner. Differential expression of MAL2 is associated with several cancers, including renal cell carcinoma and childhood leukemia, suggesting a role for MAL2 in tumorigenesis.

Additional Information

Gene ID	114569
Other Names	Protein MAL2, MAL2

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.

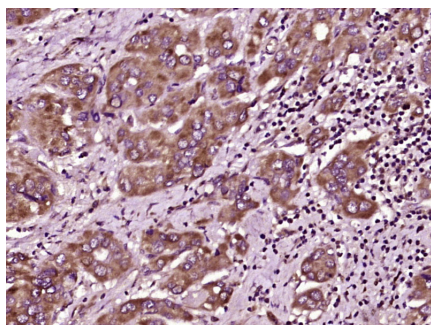
Protein Information

Name	MAL2
Function	Member of the machinery of polarized transport. Required for the indirect transcytotic route at the step of the egress of the transcytosing cargo from perinuclear endosomes in order for it to travel to the apical surface via a raft-dependent pathway.
Cellular Location	Cell membrane; Multi-pass membrane protein. Apical cell membrane; Multi-pass membrane protein. Endomembrane system Cytoplasm, perinuclear region. Note=Associated with lipid rafts. In polarized epithelial cells, restricted to the apical surface. In hepatocytes, as well as in polarized hepatoma Hep-G2 cells, found in the canalicular membrane, equivalent to the apical surface, beneath the canalicular actin cytoskeleton. In non-polarized Hep-G2 cells, distributed to the perinuclear region
Tissue Location	Predominantly expressed in kidney, lung, and liver. Also found in thyroid gland, stomach and, at lower levels in testis and small intestine.

Background

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Images



Paraformaldehyde-fixed, paraffin embedded (human liver carcinoma); 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 (MAL2) Polyclonal Antibody, Unconjugated (AP58622) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

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