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VAPA Antibody

Rabbit mAb
Catalog # AP93239

Product Information

Application	WB, IHC
Primary Accession	Q9P0L0
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Other Names	VAP33; Vapa;
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	27893

Additional Information

Dilution	WB 1:500~1:2000 IHC 1:50~1:200
Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human VAPA
Description	May play a role in vesicle trafficking.
Storage Condition and Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

Protein Information

Name	VAPA (HGNC:12648)
Synonyms	VAP33
Function	Endoplasmic reticulum (ER)-anchored protein that mediates the formation of contact sites between the ER and endosomes via interaction with FFAT motif-containing proteins such as STARD3 or WDR44 (PubMed:32344433, PubMed:33124732). STARD3-VAPA interaction enables cholesterol transfer from the ER to endosomes (PubMed:33124732). Via interaction with WDR44 participates in neosynthesized protein export (PubMed:32344433). In addition, recruited to the plasma membrane through OSBPL3 binding (PubMed:25447204). The OSBPL3-VAPA complex stimulates RRAS signaling which in turn attenuates integrin beta-1 (ITGB1) activation at the cell surface (PubMed:25447204). With OSBPL3, may regulate ER morphology (PubMed:16143324). May play a role in vesicle trafficking (PubMed:11511104, PubMed:19289470).
Cellular Location	Endoplasmic reticulum membrane; Single-pass type IV membrane protein. Cell membrane; Single-pass type IV membrane protein. Cell junction, tight junction. Nucleus membrane {ECO:0000250|UniProtKB:Q9Z270}.

Note=Present in the plasma membrane and in intracellular vesicles, together with SNARE proteins. May also associate with the cytoskeleton. Colocalizes with OCLN at the tight junction in polarized epithelial cells.

Tissue Location Ubiquitous.

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