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STOM Antibody (N-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP20729a

Product Information

Application	WB, E
Primary Accession	P27105
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB49737
Calculated MW	31731

Additional Information

Gene ID	2040
Other Names	Erythrocyte band 7 integral membrane protein, Protein 72b, Stomatin, STOM, BND7, EPB72
Target/Specificity	This STOM antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 2-36 amino acids from the N-terminal region of human STOM.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
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	STOM Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	STOM (HGNC:3383)
Function	Regulates ion channel activity and transmembrane ion transport. Regulates ASIC2 and ASIC3 channel activity.
Cellular Location	Cell membrane; Peripheral membrane protein; Cytoplasmic side. Cytoplasm, cytoskeleton. Cell membrane; Lipid-anchor; Cytoplasmic side. Membrane raft.

	Melanosome. Cytoplasmic vesicle {ECO:0000250|UniProtKB:P54116}. Note=Localizes to juxtanuclear structure probably derived from the Golgi apparatus (PubMed:9243190) Colocalizes with cortical actin microfilaments at small plasma membrane protrusions (PubMed:9243190). Associates with alpha-granular lipid rafts (PubMed:12130500). Translocates from the alpha-granular lipid rafts to the cell membrane on thrombin activation and selectively enriched in released microvesicles (PubMed:12130500). Identified by mass spectrometry in melanosome fractions from stage I to stage IV (PubMed:12643545).
Tissue Location	Detected in erythrocytes (at protein level). Widely expressed.

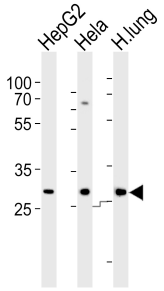
Background

Thought to regulate cation conductance. May regulate ASIC2 and ASIC3 gating (By similarity).

References

Hiebl-Dirschmied C.M.,et al.Biochim. Biophys. Acta 1090:123-124(1991).
Stewart G.W.,et al.Blood 79:1593-1601(1992).
Unfried I.,et al.Genomics 30:521-528(1995).
Gallagher P.G.,et al.J. Biol. Chem. 270:26358-26363(1995).
Halleck A.,et al.Submitted (JUN-2004) to the EMBL/GenBank/DDBJ databases.

Images



Western blot analysis of lysates from HepG2, Hela cell line and huamn lung tissue lysate(from left to right), using STOM Antibody (N-term)(Cat. #AP20729a). AP20729a was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody. Lysates at 35ug per lane.