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BLOC1S2 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP5538c

Product Information

Application	WB, IHC-P, FC, E
Primary Accession	Q6QNY1
Other Accession	Q4R7C8, NP_776170.2
Reactivity	Human, Mouse
Predicted	Monkey, Rat, Bovine, Canine, Rabbit, Chicken
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB22394
Calculated MW	15961
Antigen Region	14-40

Additional Information

Gene ID	282991
Other Names	Biogenesis of lysosome-related organelles complex 1 subunit 2, BLOC-1 subunit 2, Centrosome-associated protein, BLOC1S2, BLOS2, CEAP
Target/Specificity	This BLOC1S2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 14-40 amino acids from the Central region of human BLOC1S2.
Dilution	WB~~1:1000 IHC-P~~1:100~500 FC~~1:10~50 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	BLOC1S2 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	BLOC1S2
Synonyms	BLOS2, CEAP

Function	Component of the BLOC-1 complex, a complex that is required for normal biogenesis of lysosome-related organelles (LRO), such as platelet dense granules and melanosomes (PubMed:15102850, PubMed:17182842). In concert with the AP-3 complex, the BLOC-1 complex is required to target membrane protein cargos into vesicles assembled at cell bodies for delivery into neurites and nerve terminals. The BLOC-1 complex, in association with SNARE proteins, is also proposed to be involved in neurite extension (By similarity). As part of the BORC complex may play a role in lysosomes movement and localization at the cell periphery. Associated with the cytosolic face of lysosomes, the BORC complex may recruit ARL8B and couple lysosomes to microtubule plus-end-directed kinesin motor (PubMed:25898167). May play a role in cell proliferation (PubMed:15381421).
Cellular Location	Cytoplasm, cytoskeleton, microtubule organizing center, centrosome. Lysosome membrane. Note=Localizes to the centrosomes in a microtubule-dependent manner.
Tissue Location	Isoform 1 and isoform 2 are widely expressed. Expressed in various malignant tumor tissues (at protein level)

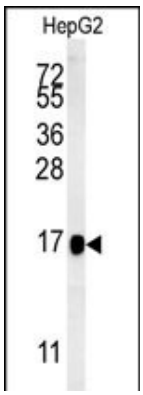
Background

BLOC1S2 is a component of the ubiquitously expressed BLOC1 multisubunit protein complex. BLOC1 is required for normal biogenesis of specialized organelles of the endosomal-lysosomal system, such as melanosomes and platelet dense granules (Starcevic and Dell'Angelica, 2004 [PubMed 15102850]).

References

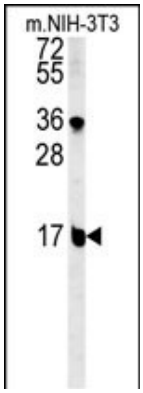
Rodriguez-Fernandez, I.A., et al. J. Inherit. Metab. Dis. 32(2):190-203(2009)
Gdynia, G., et al. Apoptosis 13(3):437-447(2008)
Wang, Z., et al. J. Mol. Biol. 343(1):71-82(2004)

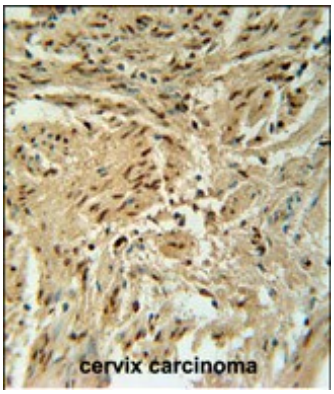
Images



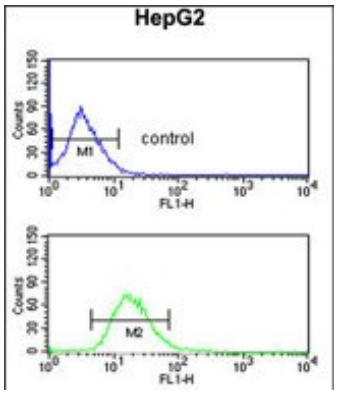
BLOC1S2 Antibody (Center) (Cat. #AP5538c) western blot analysis in HepG2 cell line lysates (15ug/lane).This demonstrates the BLOC1S2 antibody detected the BLOC1S2 protein (arrow).

BLOC1S2 Antibody (Center) (Cat. #AP5538c) western blot analysis in mouse NIH-3T3 cell line lysates (15ug/lane).This demonstrates the BLOC1S2 antibody detected the BLOC1S2 protein (arrow).





BLOC1S2 Antibody (Center) (Cat. #AP5538c) immunohistochemistry analysis in formalin fixed and paraffin embedded human cervix carcinoma followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the BLOC1S2 Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.



BLOC1S2 Antibody (Center) (Cat. #AP5538c) flow cytometric analysis of HepG2 cells (bottom histogram) compared to a negative control cell (top histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.