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BLOC1S2 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP5538c

Specification

BLOC1S2 Antibody (Center) - Product Information

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

BLOC1S2 Antibody (Center) - 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~~1:50~100
FC~~1:10~50

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.

BLOC1S2 Antibody (Center) - Protein Information

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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.

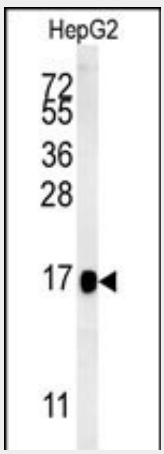
Tissue Location
Isoform 1 and isoform 2 are widely expressed. Expressed in various malignant tumor tissues (at protein level)

BLOC1S2 Antibody (Center) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

BLOC1S2 Antibody (Center) - 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).

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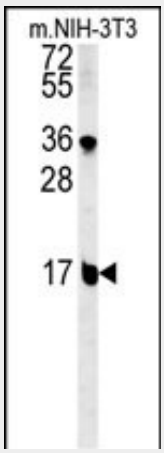
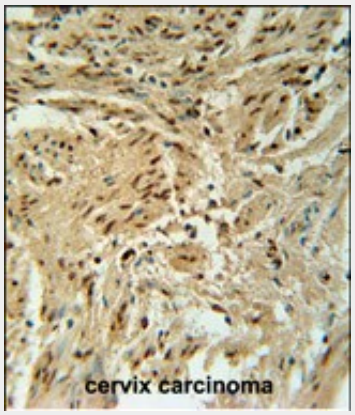
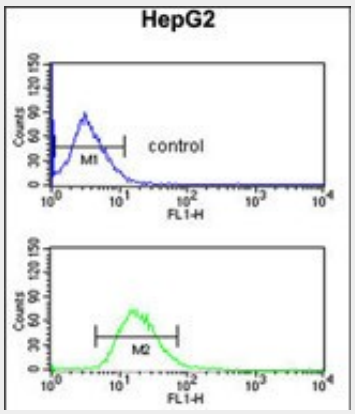


BLOC1S2 Antibody (Center) (Cat. #AP5538c) western blot analysis in mouse NIH-3T3 cell line lysates (15ug/lane).This demonstrates the BLOC1S2 antibody detected the BLOC1S2 protein (arrow).



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.

BLOC1S2 Antibody (Center) - 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]).

BLOC1S2 Antibody (Center) - 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)