

BLOC1S2 Antibody (Center)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP5538c**Specification**

BLOC1S2 Antibody (Center) - Product Information

Application	FC, IHC-P, WB,E
Primary Accession	O6QNY1
Other Accession	O4R7C8 , 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

FC~~1:10~50

IHC-P~~1:50~100

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

BLOC1S2 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

BLOC1S2 Antibody (Center) - 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.

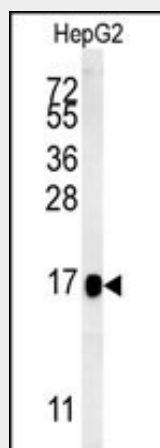
Tissue Location

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

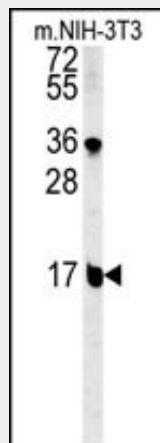
BLOC1S2 Antibody (Center) - Protocols

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

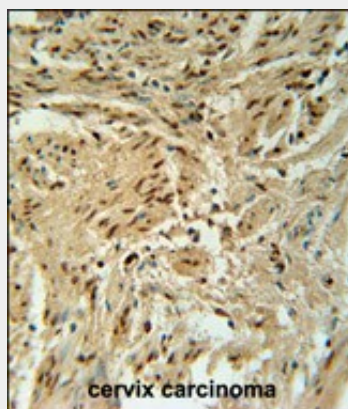
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

BLOC1S2 Antibody (Center) - Images

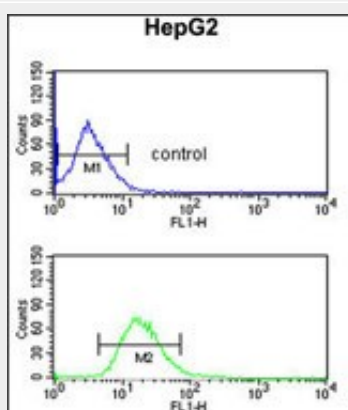
BLOC1S2 Antibody (Center) (Cat. #AP5538c) western blot analysis in HepG2 cell line lysates (15ug/lane). This demonstrates the BLOC1S2 antibody detected the BLOC1S2 protein (arrow).



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)