

# BLOS2 (E-14): sc-161391

## BACKGROUND

The biogenesis of lysosome-related organelles complex 1 (BLOC-1) is a ubiquitously expressed multisubunit protein complex that is required for the normal synthesis of organelles of the endosomal-lysosomal system, such as platelet dense granules and melanosomes. Defects in any of the subunits of BLOC-1 results in Hermansky-Pudlak syndrome, a genetic hypopigmentation and bleeding disorder. BLOS2 (biogenesis of lysosome-related organelles complex 1 subunit 2), also known as centrosome-associated protein, is a 142 amino acid protein that is one of the components of BLOC-1. Localizing to the centrosomes in a microtubule-dependent manner, BLOS2 may play a role in cell proliferation. There are two isoforms of BLOS2 that are produced as a result of alternative splicing events.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: BLOC1S2 (human) mapping to 10q24.31; Bloc1s2 (mouse) mapping to 19 C3.

## SOURCE

BLOS2 (E-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of BLOS2 of human origin.

## PRODUCT

Each vial contains 200  $\mu$ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-161391 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

BLOS2 (E-14) is recommended for detection of BLOS2 isoform Ceap-16 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000); non cross-reactive with isoform Ceap-11; non cross-reactive with BLOS1 or BLOS3.

BLOS2 (E-14) is also recommended for detection of BLOS2 isoform Ceap-16 in additional species, including equine and canine.

Suitable for use as control antibody for BLOS2 siRNA (h): sc-90595, BLOS2 siRNA (m): sc-141712, BLOS2 shRNA Plasmid (h): sc-90595-SH, BLOS2 shRNA Plasmid (m): sc-141712-SH, BLOS2 shRNA (h) Lentiviral Particles: sc-90595-V and BLOS2 shRNA (m) Lentiviral Particles: sc-141712-V.

Molecular Weight of BLOS2: 18 kDa.

## RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

## STORAGE

Store at 4° C, **\*\*DO NOT FREEZE\*\***. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

## RESEARCH USE

For research use only, not for use in diagnostic procedures.

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.