

# Syntaxin 11 (L-12): sc-109438

## BACKGROUND

Syntaxins, a family of proteins involved in the fusion of synaptic vesicles with the plasma membrane, display broad tissue distribution and contain C-terminal hydrophobic domains that direct them to their respective intracellular compartments. Syntaxin 11, also known as STX11, FHL4, HLH4 or HPLH4 is a 287 amino acid protein that contains one t-SNARE coiled-coil homology domain and localizes to the membrane of the *trans*-Golgi network. Interacting with SNAP 23 and VAMP, Syntaxin 11 functions to regulate protein transport between the *trans*-Golgi network and late endosomes. Defects in the gene encoding Syntaxin 11 are the cause of familial hemophagocytic lymphohistiocytosis type 4 (FHL4), a genetically heterogeneous autosomal recessive disorder that is characterized by fever, hepatosplenomegaly, cytopenia, hypertriglyceridemia, hypofibrinogenemia, seizures, cranial nerve deficits and ataxia.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: STX11 (human) mapping to 6q24.2; Stx11 (mouse) mapping to 10 A1.

## STORAGE

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

## SOURCE

Syntaxin 11 (L-12) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of Syntaxin 11 of human origin.

## PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-109438 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

Syntaxin 11 (L-12) is recommended for detection of Syntaxin 11 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 other Syntaxin family members.

Suitable for use as control antibody for Syntaxin 11 siRNA (h): sc-95389, Syntaxin 11 siRNA (m): sc-153991, Syntaxin 11 shRNA Plasmid (h): sc-95389-SH, Syntaxin 11 shRNA Plasmid (m): sc-153991-SH, Syntaxin 11 shRNA (h) Lentiviral Particles: sc-95389-V and Syntaxin 11 shRNA (m) Lentiviral Particles: sc-153991-V.

Molecular Weight of Syntaxin 11: 35 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.

## 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.



Try **Syntaxin 11 (A-4): sc-377121**, our highly recommended monoclonal alternative to Syntaxin 11 (L-12).