

Anti-STXBP2 Picoband Antibody

Catalog # ABO12506

Product Information

Application	WB
Primary Accession	Q15833
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Syntaxin-binding protein 2(STXBP2) detection. Tested with WB in Human;Mouse;Rat
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	6813
Other Names	Syntaxin-binding protein 2, Protein unc-18 homolog 2, Unc18-2, Protein unc-18 homolog B, Unc-18B, STXBP2, UNC18B
Calculated MW	66453
Application Details	Western blot, 0.1-0.5 µg/ml, Human, Mouse, Rat
Tissue Specificity	Placenta, lung, liver, kidney and pancreas, as well as in peripheral blood lymphocytes.
Source	Eukaryota
Protein Name	Syntaxin-binding protein 2
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human STXBP2 (184-215aa QEYPAIRYRKGPEDTAQLAHAVLAKLNAFKAD), different from the related mouse and rat sequences by one amino acid.
Purification	Immunogen affinity purified.
Cross Reactivity	No cross reactivity with other proteins
Storage	At -20 °C for one year. After reconstitution, at 4 °C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

Protein Information

Name	STXBP2 (HGNC:11445)
Synonyms	UNC18B
Function	Functions in intracellular vesicle trafficking through interaction with SNAREs (soluble N-ethylmaleimide-sensitive factor- attachment protein receptors) which are essential proteins for membrane fusion. By promoting the assembly of functional STX11/SNAP23/VAMP8 SNARE complexes at the plasma membrane, regulates cytotoxic granule exocytosis in natural killer (NK) cells.
Cellular Location	Cell membrane; Peripheral membrane protein. Cytolytic granule membrane; Peripheral membrane protein. Note=Enriched at the immunological synapse in activated immune cells.
Tissue Location	Placenta, lung, liver, kidney and pancreas, as well as in peripheral blood lymphocytes

Background

Syntaxin-binding protein 2, also known as UNC18B, is a protein that in humans is encoded by the STXBP2 gene. The STXBP2 gene is mapped to human chromosome 19p13.3-p13.2 and to the proximal arm of mouse chromosome 8. And this gene encodes a member of the STXBP/unc-18/SEC1 family. The encoded protein is involved in intracellular trafficking, control of SNARE (soluble NSF attachment protein receptor) complex assembly, and the release of cytotoxic granules by natural killer cells. Additionally, UNC18B is expressed predominantly as a 2.4-kb message in placenta, lung, liver, kidney, and pancreas, as well as in peripheral blood lymphocytes. Mutations in this gene are associated with familial hemophagocytic lymphohistiocytosis. Alternatively spliced transcript variants encoding different isoforms have been noted for this gene.

Images



Anti- STXBP2 Picoband antibody, ABO12506, Western blotting
All lanes: Anti STXBP2 (ABO12506) at 0.5ug/mL
Lane 1: Rat Brain Tissue Lysate at 50ug
Lane 2: Mouse Brain Tissue Lysate at 50ug
Lane 3: HEPG2 Whole Cell Lysate at 40ug
Lane 4: HELA Whole Cell Lysate at 40ug
Predicted bind size: 66KD
Observed bind size: 66KD

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.