Human Syntaxin 12 Antibody

Monoclonal Mouse IgG_1 Clone # 677201

Catalog Number: MAB6617

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Syntaxin 12 in direct ELISAs and Western blots. In direct ELISAs and Western blots, no cross-reactivity with recombinant human Syntaxin 1A, 1B1, 1B2, 5, 6, 7, 8, or 16 is observed.
Source	Monoclonal Mouse IgG_1 Clone # 677201
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	*E. coli*-derived recombinant human Syntaxin 12 Ser2-Gln200 Accession # Q86Y82
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 μm filtered solution in PBS.

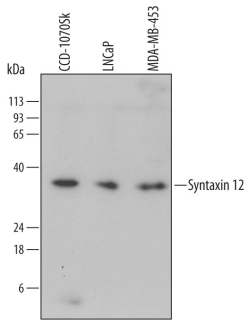
APPLICATIONS

Please Note: *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

	Recommended Concentration	Sample
Western Blot	1 µg/mL	See Below

DATA

Western Blot



Detection of Human Syntaxin 12 by Western Blot. Western blot shows lysates of CCD-1070Sk human foreskin fibroblast cell line, LNCaP human prostate cancer cell line, and MDA-MB-453 human breast cancer cell line. PVDF Membrane was probed with 1 µg/mL of Mouse Anti-Human Syntaxin 12 Monoclonal Antibody (Catalog # MAB6617) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF007). A specific band was detected for Syntaxin 12 at approximately 30 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

PREPARATION AND STORAGE

Reconstitution	Sterile PBS to a final concentration of 0.5 mg/mL.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

Syntaxin 12/STX12 is a 39 kDa member of the Syntaxin family. It is a SNARE that acts to regulate protein transport between late endosomes and the trans-Golgi network. Human STX12 is 276 amino acids (aa) in length, and is a type IV single-pass transmembrane protein. The cytoplasmic region extends from aa 1-248. A coiled-coil region extends from aa 33-131 within that region. From aa 178-240, there is a t-SNARE coiled-coil homology domain. The transmembrane region is located at 249-269, and a vesicular area is located at aa 270-276. Human STX12 shares 92% aa sequence identity with mouse STX12.

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