

Rabbit anti-Human STX4 Polyclonal Antibody | anti-STX4 antibody

Anti-STX4 Antibody, Rabbit Polyclonal

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA255874	Rabbit	Human	Immunoprecipitation, Immunofluorescence, Immunocytochemistry, Western Blot

PRODUCT SYNONYMS

STX4; Polyclonal Antibody; Anti-STX4 Antibody; Rabbit Polyclonal; STX4 Antibody; Rabbit PAb; Antigen Affinity Purified; syntaxin 4; Anti-p35-2 Antibody; Anti-STX4A Antibody; anti-STX4 antibody

PRODUCT SPECIFICATIONS

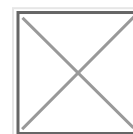
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Human STX4
Purity/Purification	Protein A & Antigen Affinity
Form/Format	Liquid; PBS, pH7.0 with 0.03% Proclin300
Applicable Applications for anti-STX4 antibody	IP (Immunoprecipitation), IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)
Immunogen	E Coli-derived Human STX4 fragment
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with E Coli-derived Human STX4 fragment, and purified by antigen affinity chromatography.
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Avoid repeated freeze-thaw cycles.

IMAGES



IP (Immunoprecipitation)

STX4 was immunoprecipitated using: Lane A: 0.5 mg K562 Whole Cell Lysate 4 uL anti-STX4 rabbit polyclonal antibody and 60 ug of Immunomagnetic beads Protein A/G. Primary antibody: Anti-STX4 rabbit polyclonal antibody, at 1:100 dilution. Secondary antibody: Goat Anti-Rabbit IgG (H+L)/HRP at 1/10000 dilution. Developed using the ECL technique. Performed under reducing conditions. Predicted band size: 34 kDa. Observed band size: 36 kDa.



IF (Immunofluorescence)

Immunofluorescence staining of STX4 in U251MG cells. Cells were fixed with 4% PFA, blocked with 10% serum, and incubated with rabbit anti-Human STX4 polyclonal antibody (dilution ratio 1:200) at 4 degree C overnight. Then cells were stained with the Alexa Fluor 488-conjugated Goat Anti-rabbit IgG secondary antibody (green) and counterstained with DAPI (blue). Positive staining was localized to Cytoplasm and cell membrane.



WB (Western Blot)

Anti-STX4 rabbit polyclonal antibody at 1:500 dilution Lane A: HeLa Whole Cell Lysate Lane B: 293 Whole Cell Lysate Lane C: K562 Whole Cell Lysate Lysates/proteins at 30 ug per lane. Secondary Goat Anti-Rabbit IgG (H+L)/HRP at 1/10000 dilution. Developed using the ECL technique. Performed under reducing conditions. Predicted band size: 34 kDa Observed band size: 36 kDa

ADDITIONAL INFORMATION

Related Product Information for anti-STX4 antibody

The SNARE protein syntaxin4 (Stx4) is involved in the formation of invasive structures called invadopodia. Stx4 is expressed highly in skeletal muscle and plays a critical role in insulin-stimulated glucose uptake by promoting translocation of glucose transporter 4 (GLUT4) to the cell surface. Munc18c is known to regulate Stx4 activity. The Synip and Stx4 complex plays a key role in GLUT4 vesicle trafficking and fusion with the plasma membrane. The interaction of Synip with Stx4 prevents interaction of VAMP2 located in GLUT4 vesicle with Stx4 in the basal state. Insulin induces the dissociation of the Synip and Stx4 complex, and then triggers VAMP2 to interact with Stx4 to form the SNARE complex, thus promoting the vesicle fusion. Stx4 promotes myoblast differentiation through interaction with Cdo and stimulation of its surface translocation.

References

Yoo M, et al. (2015) Syntaxin 4 regulates the surface localization of a promyogenic receptor cdo thereby promoting myogenic differentiation. Skelet Muscle 5 28. Tian W, et al. (2008) An efficient co-expression and purification system for the complex of stx4 and c-terminal domain of synip. Biochem Biophys Res Commun 371 (3): 366-370. Brasher MI, et al. (2017) Interaction of munc18c and syntaxin4 facilitates invadopodium formation and extracellular matrix invasion of tumor cells. J Biol Chem 292 (39): 16199-16210.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/stx4-antibody-immunoprecipitation-immunofluorescence-immunocytochemistry-western-blot-elisa/255874>