

## **Human/Mouse/Rat Syntaxin 7 Antibody**

Antigen Affinity-purified Polyclonal Sheep IgG Catalog Number: AF5478

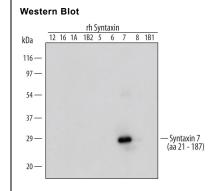
DESCRIPTION			
Species Reactivity	Human/Mouse/Rat		
Specificity	Detects human, mouse, and rat Syntaxin 7 in Western blots.		
Source	Polyclonal Sheep IgG		
Purification	Antigen Affinity-purified		
Immunogen	E. coli-derived recombinant human Syntaxin 7 Asn21-Glu187 Accession # O15400		
Formulation	Lyophilized 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
Immunocytochemistry	5-15 μg/mL	See Below

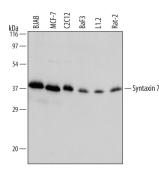
### DATA



### **Detection of Human Syntaxin 7** by Western Blot.

Western blot shows recombinant human Syntaxin 12, 16, 1A, 1B2, 5, 6, 7, 8, and 1B1 (5 ng/lane). PVDF membrane was probed with 1 μg/mL Sheep Anti-Human/Mouse/Rat Syntaxin 7 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF5478) followed by HRP-conjugated Anti-Sheep IgG Secondary Antibody (Catalog # HAF016). A specific band for Syntaxin 7 was detected at approximately 29 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

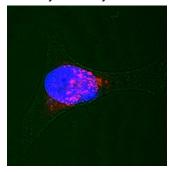




### Detection of Human, Mouse, and Rat Syntaxin 7 by Western Blot.

Western blot shows lysates of BJAB human Burkitt's lymphoma cell line, MCF-7 human breast cancer cell line, C2C12 mouse myoblast cell line, BaF3 mouse pro-B cell line, L1.2 mouse pro-B cell line, and Rat-2 rat embryonic fibroblast cell line. PVDF membrane was probed with 1  $\mu$ g/mL Sheep Anti-Human/Mouse/Rat Syntaxin 7 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF5478) followed by HRPconjugated Anti-Sheep IgG Secondary Antibody (Catalog # HAF016). A specific band for Syntaxin 7 was detected at approximately 39 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer

# Immunocytochemistry



Syntaxin 7 in HeLa Human Cell Line. Syntaxin 7 was detected in immersion fixed HeLa human cervical epithelial carcinoma cell line using Sheep Anti-Human/Mouse/Rat Syntaxin 7 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF5478) at 15 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557conjugated Anti-Sheep IgG Secondary Antibody (red; Catalog # NL010) and counterstained with DAPI (blue). Specific staining was localized to lysosomes. View our protocol for Fluorescent ICC Staining of Cells on Coverslips.

### PREPARATION AND STORAGE

Reconstitution Reconstitute at 0.2 mg/mL in sterile PBS.

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.



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### BACKGROUND

Syntaxin 7 (STX7) is a widely expressed protein embedded in endosomal and lysosomal membranes, and serves as a component of the SNARE complex. STX7 is involved in endocytic trafficking from early endosomes to late endosomes and lysosomes. This is in contrast to STX8, which is involved in clathrin-independent vesicular transport. Human STX7 is a type IV single-pass transmembrane protein (very short exoplasmic C-terminus) that is 261 amino acids (aa) in length. It contains a coiled-coil region (aa 47-69), a t-SNARE domain (aa 165-227) that is likely involved in protein-protein interactions, and a short, two amino acid, C-terminal luminal sequence. Over aa 21-187, human STX7 shares 97% aa identity with mouse STX7.

Rev. 3/13/2015 Page 2 of 2

