

## DESCRIPTION

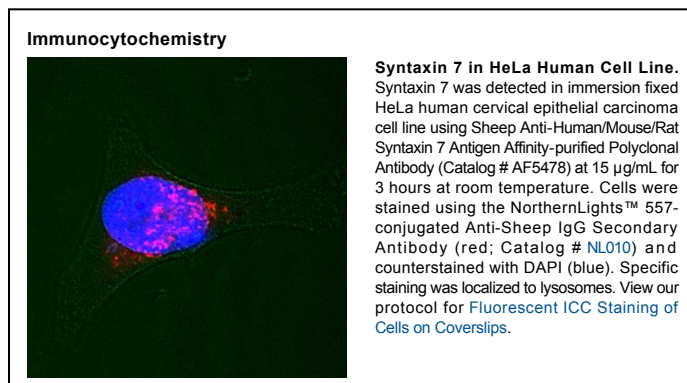
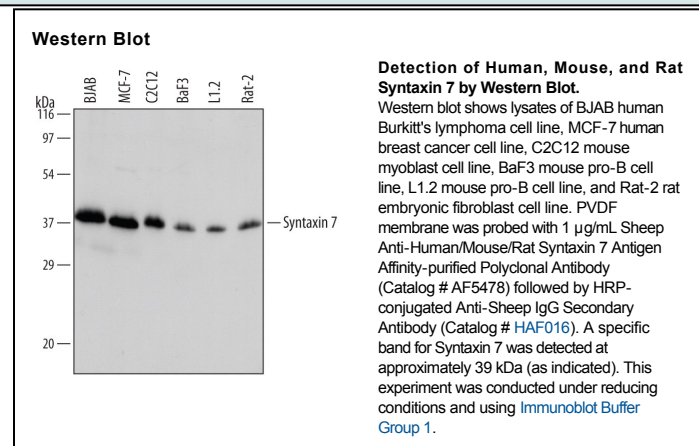
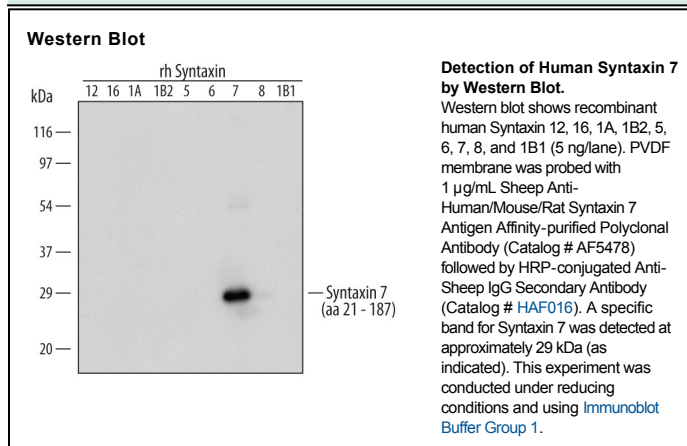
<b>Species Reactivity</b>	Human/Mouse/Rat
<b>Specificity</b>	Detects human, mouse, and rat Syntaxin 7 in Western blots.
<b>Source</b>	Polyclonal Sheep IgG
<b>Purification</b>	Antigen Affinity-purified
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant human Syntaxin 7 Asn21-Glu187 Accession # O15400
<b>Formulation</b>	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.

	<b>Recommended Concentration</b>	<b>Sample</b>
<b>Western Blot</b>	1 µg/mL	See Below
<b>Immunocytochemistry</b>	5-15 µg/mL	See Below

## DATA



## PREPARATION AND STORAGE

<b>Reconstitution</b>	Reconstitute at 0.2 mg/mL in sterile PBS.
<b>Shipping</b>	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
<b>Stability &amp; Storage</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <li>• 12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>• 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>• 6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>

## 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.