

## DESCRIPTION

<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human Chitobiase/CTBS in direct ELISAs and Western blots.
<b>Source</b>	Polyclonal Goat IgG
<b>Purification</b>	Antigen Affinity-purified
<b>Immunogen</b>	Mouse myeloma cell line NS0-derived recombinant human Chitobiase/CTBS Thr39-Arg385 Accession # Q01459
<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 either lyophilized or 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>	0.1 µg/mL	Recombinant Human Chitobiase/CTBS

## 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

CTBS (Di-N-acetylchitobiase; also chitobiase) is a 40 kDa lysosomal glycoprotein that belongs to glycosyl hydrolase family # 18. It is a reducing-end glycoside hydrolase that serves to degrade asparagines-linked carbohydrates. Mature human CTBS is 347 amino acids (aa) in length and contains one catalytic domain (aa 115-357). There are multiple potential isoforms of CTBS. One shows a three aa deletion of aa 30-32, accompanied by a two two aa substitution for the C-terminal 279 amino acids. There are two potential alternate start sites, one at Met92 and a second at Met207. Mature human CTBS (aa 39-385) is 85% aa identical to mouse CTBS.