

## DESCRIPTION

<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human ADAM32 in Western blots. In Western blots, less than 1% cross-reactivity with recombinant human (rh) ADAM9, rhADAM22, and rhADAM23 is observed.
<b>Source</b>	Polyclonal Sheep IgG
<b>Purification</b>	Antigen Affinity-purified
<b>Immunogen</b>	Chinese hamster ovary cell line CHO-derived recombinant human ADAM32 Ser17-Thr476 Accession # Q8TC27
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution in PBS with BSA as a carrier protein. See Certificate of Analysis for details.

## 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 ADAM32

## 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.
<b>Stability &amp; Storage</b>	<p><b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b></p> <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

ADAM32 (a disintegrin and metalloprotease domain 32) is a 90-100 kDa member of the M12B peptidase family of proteins. It is expressed on sperm found in the testis, epididymis and vas deferens. The human ADAM32 precursor is a 771 amino acid (aa) type I transmembrane protein. It contains a 158 aa proregion (aa 17-174) and a 508 aa extracellular domain (ECD) (aa 175-682). The ECD contains a nonfunctional metalloprotease domain (aa 186-383), an integrin-binding disintegrin region (aa 391-479), a Cys-rich segment (aa 480 - 502) and an EGF-like domain (aa 622-654). In the testis, mature ADAM32 is approximately 98 kDa in size; in the epididymis, cleavage occurs after the metalloprotease domain to generate a 44 kDa product. There are two potential splice events that show a deletion of aa 306-401 plus a 53 aa substitution for the N-terminal 46 amino acids. Over aa 17-476, human ADAM32 is 66% aa identical to mouse ADAM32.