

## DESCRIPTION

<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human Cathepsin V in direct ELISAs and Western blots. In direct ELISAs, no cross-reactivity with recombinant human (rh) Cathepsin B, C, F, K, L, O, S, or Z is observed. In Western blots, less than 5% cross-reactivity with rhCathepsin K and no cross-reactivity with rhCathepsin B, C, F, L, O, S, or Z is observed. This antibody specifically identifies the pro form but not the active form of Cathepsin V in Western blots.
<b>Source</b>	Monoclonal Mouse IgG <sub>2B</sub> Clone # 182021
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	Mouse myeloma cell line NS0-derived recombinant human Cathepsin V Val18-Val334 Accession # O60911
<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>	1 µg/mL	Recombinant Human Cathepsin V (Catalog # 1080-CY)
<b>Immunoprecipitation</b>	25 µg/mL	Conditioned cell culture medium spiked with Recombinant Human Cathepsin V (Catalog # 1080-CY), see our available Western blot detection antibodies

## PREPARATION AND STORAGE

<b>Reconstitution</b>	Reconstitute at 0.5 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

Cathepsin V, also known as cathepsin L2 and cathepsin U, is a lysosomal cysteine protease expressed in the thymus, testis, and corneal epithelium. It may play a role in tumor progression since it is expressed in colorectal and breast carcinomas but not in normal colon, mammary gland, or peritumoral tissues. Additionally, it may be involved in corneal physiology. The amino acid sequence of human Cathepsin V shares 99%, 83% and 76% identical with that of chimpanzee, dog and mouse/rat, respectively.