

Human Cathepsin X/Z/P Biotinylated Antibody

Antigen Affinity-purified Polyclonal Goat IgG Catalog Number: BAF934

DESCRIPTION		
Species Reactivity	Human	
Specificity	Detects human Cathepzin X/Z/P in Western blots. In Western blots, less than 1% cross-reactivity with recombinant human (rh) Cathepsin A, rhCathepsin B, rhCathepsin C, rhCathepsin D, and rhCathepsin L is observed.	
Source	Polyclonal Goat IgG	
Purification	Antigen Affinity-purified	
Immunogen	Mouse myeloma cell line NS0-derived recombinant human Cathepsin X/Z/P Ala21-Val303 (Gly23Val, Ser48Thr) Accession # Q9UBR2	
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with BSA as a carrier protein. See Certificate of Analysis for details.	

APPI		

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	0.1 μg/mL	Recombinant Human Cathepsin X/Z/P (Catalog # 934-CY)
Immunohistochemistry	3-15 μg/mL	Immersion fixed paraffin-embedded sections of human breast cancer tissue

DATA

Immunohistochemistry





Normal Breast Breast Cancer

Cathepsin X/Z/P in Human Breast Cancer Tissue.

Cathepsin X/Z/P was detected in immersion fixed paraffinembedded sections of human breast cancer tissue using Goat Anti-Human Cathepsin X/Z/P Biotinylated Antigen Affinitypurified Polyclonal Antibody (Catalog # BAF934) at 3 µg/mL for 1 hour at room temperature followed by incubation with the Anti-Goat IgG VisUCyte™ HRP Polymer Antibody (Catalog # VC004). Before incubation with the primary antibody, tissue was subjected to heat-induced epitope retrieval using Antigen Retrieval Reagent-Basic (Catalog # CTS013). Tissue was stained using DAB (brown) and counterstained with hematoxylin (blue). Specific staining was localized to cytoplasm. Staining was performed using our protocol for IHC Staining with VisUCyte HRP Polymer Detection Reagents.

PREPARATION AND	STORAGE
Reconstitution	Reconst

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. 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

Cathepsin X (also known as Cathepsin Z and P) is a cysteine protease of the papain family (1-5). Compared to other members of the papain family, Cathepsin X has a short proregion and unique insertions. The cysteine residue in the proregion forms a covalent and reversible bond with the active site cysteine residue (6). Acting as a carboxypeptidase, Cathepsin X displays a unique specificity (7-10). It is ubiquitously expressed in human tissues and conserved in other species such as mouse, nematode and echiuran. The nematode enzyme is apparently involved in molting of third stage larvae (11).

References:

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