

Mouse Cathepsin C/DPPI Antibody

Antigen Affinity-purified Polyclonal Goat IgG Catalog Number: AF1034

DESCRIPTION				
Species Reactivity	Mouse			
Specificity	Detects mouse Cathepsin C/DPPI in direct ELISAs and Western blots. In direct ELISAs, approximately 15% cross-reactivity with recombin human (rh) Cathepsin C is observed and less than 1% cross-reactivity with recombinant mouse (rm) Cathepsin A, rmCathepsin B, rmCathepsin D, rmCathepsin H, and rmCathepsin X/Z/P is observed.			
Source	Polyclonal Goat IgG			
Purification	Antigen Affinity-purified			
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse Cathepsin C/DPPI Asp25-Leu462 Accession # P97821			
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details.			

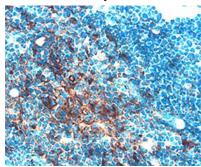
APPLICATIONS

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.

	Recommended Concentration	Sample
Western Blot	0.1 μg/mL	Recombinant Mouse Cathepsin C/DPPI (Catalog # 1034-CY)
Immunohistochemistry	5-15 μg/mL	See Below

DATA

Immunohistochemistry



Cathepsin C/DPPI in Mouse Thymus. Cathepsin C/DPPI was detected in perfusion fixed frozen sections of mouse thymus using Goat Anti-Mouse Cathepsin C/ DPPI Antigen Affinity-purified Polyclonal Antibody (Catalog # AF1034) at 15 µg/mL overnight at 4 °C. Tissue was stained using the Anti-Goat HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS008) and counterstained with hematoxylin (blue). Specific staining was localized to thymocytes. View our protocol for Chromogenic IHC Staining of Frozen Tissue Sections.

	TORAGE

Reconstitution 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.

BACKGROUND

Cathepsin C is a cysteine protease of the papain family (1). Cathepsin C sequentially removes dipeptides from the free N-termini of proteins and peptides. It has broad specificity except that it does not cleave a basic amino acid (Arg or Lys) in the N-terminal position or Pro on either side of the scissle bond. It requires halide ions for activity. The pro form contains a pro peptide and a catalytic region, which can be further processed into heavy/ α and light/ β chains that are linked by a disulfide bond. It is broadly distributed. Cathepsin C plays a role in the lysosomal degradation. It also functions as a key enzyme in the activation of granule serine proteases in cytotoxic T lymphocytes and natural killer cells (granzymes A and B), mast cells (tryptase and chymase), and neutrophils (Cathepsin G and elastase) by removing their N-terminal activation dipeptides (2).

References:

- 1. Turk, B. et al. (2004) in Handbook of Proteolytic Enzymes. Barrett, et al. eds. p. 1192, Academic Press, San Diego.
- 2. Dahl, S.W. et al. (2001) Biochemistry 40:1671.



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