

Product Datasheet

Cathepsin D Antibody (4G2) - BSA Free NBP1-04278-50ug

Unit Size: 50 ug

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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NBP1-04278-50ug

Cathepsin D Antibody (4G2) - BSA Free

Product Information

Unit Size	50 ug
Concentration	1.0 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	4G2
Preservative	0.02% Sodium Azide
Isotype	IgG2b Kappa
Purity	Protein G purified
Buffer	PBS (pH 7.4), 10% Glycerol
Target Molecular Weight	44 kDa

Product Description

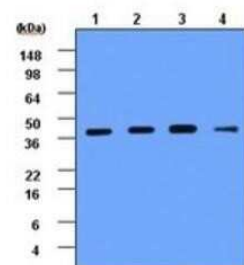
Host	Mouse
Gene ID	1509
Gene Symbol	CTSD
Species	Human
Marker	Lysosomes Marker
Immunogen	Recombinant human Cathepsin D (21-412 aa) purified from E. coli (NP_001900).

Product Application Details

Applications	Western Blot, ELISA, Electron Microscopy, Flow Cytometry, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot, Flow Cytometry, ELISA, Immunohistochemistry, Immunocytochemistry/Immunofluorescence, Immunohistochemistry-Paraffin, Electron Microscopy
Application Notes	ICC/IF reactivity reported in scientific literature (PMID: 21264228), EM reactivity reported in scientific literature (PMID: 21264221).

Images

Western Blot: Cathepsin D Antibody (4G2) [NBP1-04278] - Western Blot: Cathepsin D antibody (clone 4G2)[NBP04278]-Cell lysates of HepG2, Hep3B, MDA-MB-231 and MCF7 (each 20ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human Cathepsin D (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and ECL detection system.



Western blot analysis

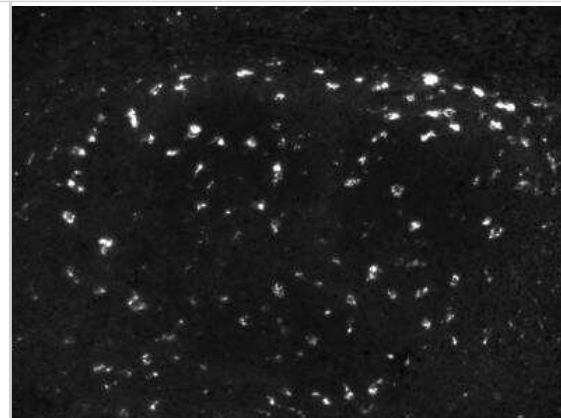
Lane 1 : HepG2

Lane 2 : Hep3B

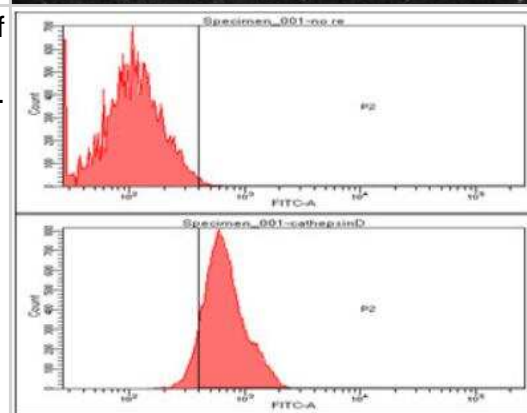
Lane 3 : MDA-MB-231

Lane 4 : MCF7

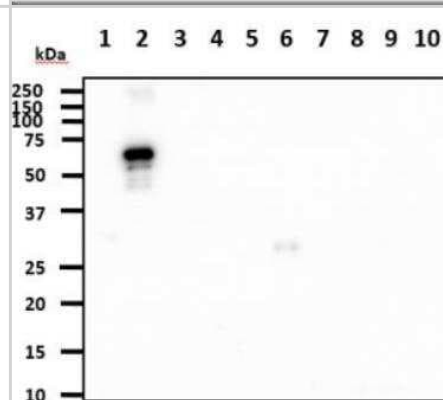
Immunohistochemistry-Paraffin: Cathepsin D Antibody (4G2) [NBP1-04278] - Cathepsin D 1:50 on tonsil, pH 9 antigen retrieval. IHC-P image submitted by a verified customer review.



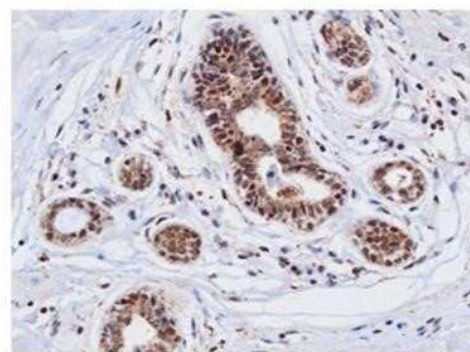
Flow Cytometry: Cathepsin D Antibody (4G2) [NBP1-04278] - Analysis of Cathepsin D in Hep3B cell line, staining at 2-5ug for 1x10⁶ cells. The secondary antibody used goat anti-mouse IgG Alexa fluor 488 conjugate.



Western Blot: Cathepsin D Antibody (4G2) [NBP1-04278] - The recombinant proteins (100ng) were resolved by SDSPAGE, transferred to PVDF membrane and probed with anti human Cathepsin D antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system. Lane 1. : Recombinant Human CTSB Lane 2. : Recombinant Human CTSD Lane 3. : Recombinant Human CTSE Lane 4. : Recombinant Human CTSF Lane 5. : Recombinant Human CTSH Lane 6. : Recombinant Human CTSK Lane 7. : Recombinant Human CTSL Lane 8. : Recombinant Human CTSS Lane 9. : Recombinant Human CTSW Lane 10. : Recombinant Human CTSZ



Immunohistochemistry-Paraffin: Cathepsin D Antibody (4G2) [NBP1-04278] - human Cathepsin D (1:50) for 2 hours at room temperature. Antigen retrieval was performed in 0.1M sodium citrate buffer and detected using Diaminobenzidine (DAB)



Human breast lobule

Publications

Martin T, Juarros M, Cleveland J et al. Assessment of Autophagy Markers Suggests Increased Activity Following LVAD Therapy JACC: Basic to Translational Science 2023-09-01 [PMID: 37791310] (Human, WB)

Dixit B, Vanhoozer S, Anti N et al. Rapid enrichment of mitochondria from mammalian cell cultures using digitonin MethodsX 2021-08-26 [PMID: 34434723]

Oldoni F, van Capelleveen JC, Dalila N. Naturally Occurring Variants in LRP1 (Low-Density Lipoprotein Receptor-Related Protein 1) Affect HDL (High-Density Lipoprotein) Metabolism Through ABCA1 (ATP-Binding Cassette A1) and SR-B1 (Scavenger Receptor Class B Type 1) in Humans Arteriosclerosis, Thrombosis, and Vascular Biology 2018-01-01 [PMID: 29853565] (WB, Human)

Necchi V, Sommi P, Vanoli A et al. Natural history of Helicobacter pylori VacA toxin in human gastric epithelium in vivo: vacuoles and beyond Sci Rep. 2017-11-06 [PMID: 29109534] (Human)

Kitamura N, Nakamura Y, Miyamoto Y et al. Mieap, a p53-inducible protein, controls mitochondrial quality by repairing or eliminating unhealthy mitochondria PLoS One 2011-01-17 [PMID: 21264228] (ICC/IF, Human)

Miyamoto Y, Kitamura N, Nakamura Y et al. Possible existence of lysosome-like organella within mitochondria and its role in mitochondrial quality control. PLoS One. 2011-01-01 [PMID: 21264221] (EM, Human)





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This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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