

Product Datasheet

Cathepsin E Antibody - BSA Free NB400-152

Unit Size: 0.1 ml

Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.

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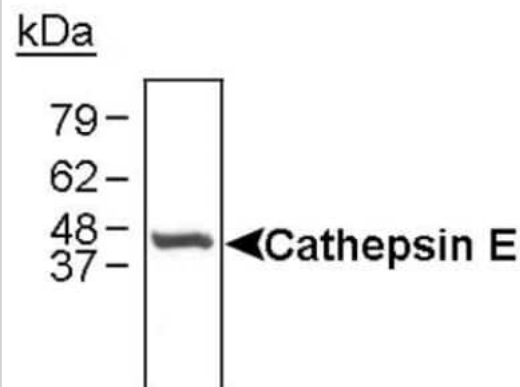


NB400-152**Cathepsin E Antibody - BSA Free**

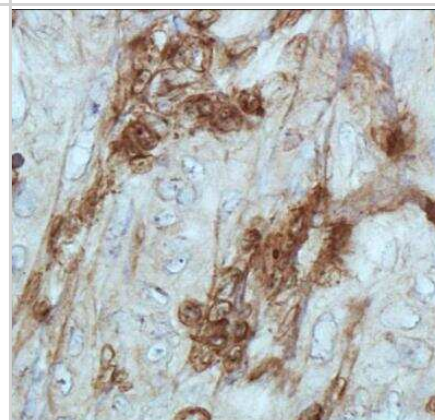
Product Information	
Unit Size	0.1 ml
Concentration	This product is unpurified. The exact concentration of antibody is not quantifiable.
Storage	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.05% Sodium Azide
Isotype	IgG
Purity	Unpurified
Buffer	Whole antisera
Target Molecular Weight	42 kDa
Product Description	
Description	Novus Biologicals Rabbit Cathepsin E Antibody - BSA Free (NB400-152) is a polyclonal antibody validated for use in IHC, WB and ICC/IF. Anti-Cathepsin E Antibody: Cited in 1 publication. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	1510
Gene Symbol	CTSE
Species	Human, Mouse, Rat
Immunogen	A synthetic peptide made to the C-terminus of mouse Cathepsin E [UniProt# P70269]
Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Immunocytochemistry/Immunofluorescence, Immunohistochemistry
Recommended Dilutions	Western Blot 1:2000, Immunohistochemistry 1:400, Immunocytochemistry/Immunofluorescence 1:200, Immunohistochemistry-Paraffin 1:400
Application Notes	This Cathepsin E antibody is useful for Immunocytochemistry/Immunofluorescence, Immunohistochemistry paraffin embedded sections and Western blot, where a single band of ~42 kDa is detected. Prior to immunostaining paraffin tissues, antigen retrieval with sodium citrate buffer (pH 6.0) is recommended. The observed molecular weight of the protein may vary from the listed predicted molecular weight due to post translational modifications, post translation cleavages, relative charges, and other experimental factors.

Images

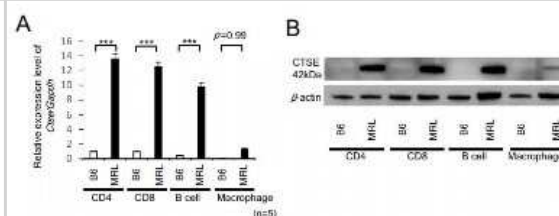
Western Blot: Cathepsin E Antibody [NB400-152] - Detection of Cathepsin E in 10 ug of murine reticulocyte lysate using NB400-152.



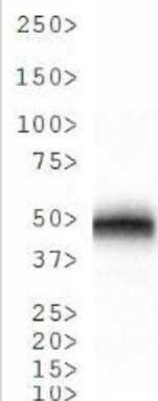
Immunohistochemistry: Cathepsin E Antibody [NB400-152] - Analysis of Cathepsin E in human renal cancer using DAB with hematoxylin counterstain.



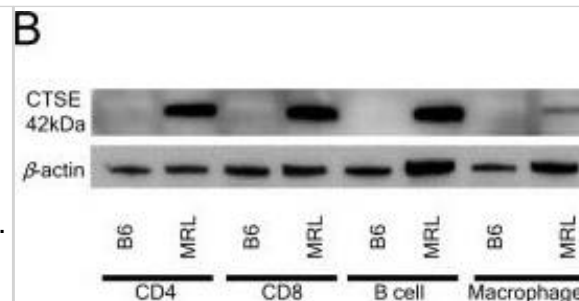
Western Blot: Cathepsin E Antibody [NB400-152] - The expression and methylation status of Cathepsin E gene in CD4+ T cells isolated from MRL/lpr lupus-prone (MRL) and C57BL/6 (B6) mice. mRNA expression of Cathepsin E in CD4+, CD8+, B cells and macrophages in B6 and MRL mice. *** $p < 0.001$. Western blot analyses of Cathepsin E in CD4+, CD8+, B cells and macrophages in B6, MRL and mice. Image collected and cropped by CiteAb from the following publication (<https://www.nature.com/articles/s41598-019-38809-y>), licensed under a CC-BY license.



Western Blot: Cathepsin E Antibody [NB400-152] - Analysis of Cathepsin E on mouse stomach lysate.



Western Blot: Cathepsin E Antibody [NB400-152] - The expression & methylation status of Ctse gene in CD4+ T cells isolated from MRL/lpr lupus-prone (MRL) & C57BL/6 (B6) mice. (A) mRNA expression of Ctse in CD4+, CD8+, B cells & macrophages in B6 & MRL mice. ***p < 0.001. (B) Western blot analyses of CTSE in CD4+, CD8+, B cells & macrophages in B6, MRL & mice. (C) Methylated region expanding 583 bp in Ctse intron 1 in B6 mice demonstrated by UCSC Genome Browser. In MRL mice, 583 bp region is hypomethylated. Duplicate reads are indicated by arrows. (D) Nucleotide sequence within 583 bp flanking region of Ctse intron 1 in B6 mice. Among 13 CpGs (red & underlined), 11th CpG (boxed) includes mCGCG binding motif for Kaiso. After genomic DNAs were bisulphite converted, amplified by PCR using Primer F1 & R1, subcloned, & isolated clones sequenced. 98.6% of CpGs (71 out of 72 colonies) in B6 mice & 76.9% CpGs (50 of 65) in MRL mice were methylated. (E) The structure of Kaiso, SMRT (Silencing Mediator of Retinoic acid & Thyroid hormone receptors)/N-CoR (Nuclear hormone receptor Co-Repressor), & HDAC3 (Histone deacetylase 3) complex. BTB (for BR-C, ttk & bab), POZ (for Pox virus & Zinc finger) & C2H2 zinc-finger domains are shown. (F) DNA sequencing of bisulphite converted DNAs in Ctse intron 1 in B6 & MRL mice. Percentage of methylation of 11th CpG is shown (n = 5). ***p < 0.001. Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/30816218>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Hiramatsu S, Watanabe KS, Zeggar S et al. Regulation of Cathepsin E gene expression by the transcription factor Kaiso in MRL/lpr mice derived CD4+ T cells Sci Rep 2019-02-28 [PMID: 30816218] (WB, Human, Mouse)



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Products Related to NB400-152

HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
NBP2-33868PEP	Cathepsin E Recombinant Protein Antigen

Limitations

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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