

CTSH

Mouse Anti-Human Cathepsin H Clone 3G8 mAb

Catalog No.	CSI15559A CSI15559B	Quantity: 50 μ l 100 μ l
Alternate Names:	ACC-4, ACC-5, CPSB, MGC1519, minichain, N-benzoylarginine-beta-naphthylamide hydrolase, aleurain, cathepsin B3, cathepsin BA	
Description:	Cathepsin H is a lysosomal glycoprotein and a member of the cysteine proteinase. This cysteine protease class comprises cathepsin B, H, K, L, and O. These proteinases are viewed as simple mediators of lysosomal protein degradation. Cathepsin H is synthesized as an inactive proenzyme (41 kDa) and then proteolytically processed to an active single chain, mature form (28 kDa) within the endosomes/lysosomes. This proteinase is a peptidehydrolase that firstly isolated from rat liver, and then identified in liver, kidney, spleen, and brain of different mammals. Furthermore, cathepsin H is increased in disease states including breast carcinoma, melanoma, gliomas, and colorectal and prostate carcinoma.	
Concentration:	1 mg/ml	
Gene ID:	50808	
Protein Accession No.:	NP_004381	
Host:	Mouse	
Immunogen:	Recombinant human Cathepsin H (23-335 aa) purified from <i>E. coli</i>	
Isotype:	Mouse IgG2a κ	
Clone:	Anti-human cathepsin H mAb, clone 3G8, is derived from hybridization of mouse SP2/O myeloma cells with spleen cells from BALB/c mice immunized with a recombinant human cathepsin H protein.	
Formulation:	Liquid. Supplied in Phosphate-Buffered Saline (pH 7.4) with 0.1% Sodium azide.	
	Precaution: Sodium azide is a poisonous and hazardous substance which should be handled by trained staff only.	
Purification:	By protein-G affinity chromatography	
Reacts With:	Human	
Applications:	ELISA, WB (Recombinant protein, Cell lysate)	
Application Notes:	The antibody has been tested by ELISA, Western blot and immunohistochemistry analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results. Recommended dilution range for Western blot analysis is 1:500 ~ 1:2,000. Recommended starting dilution is 1:1,000.	



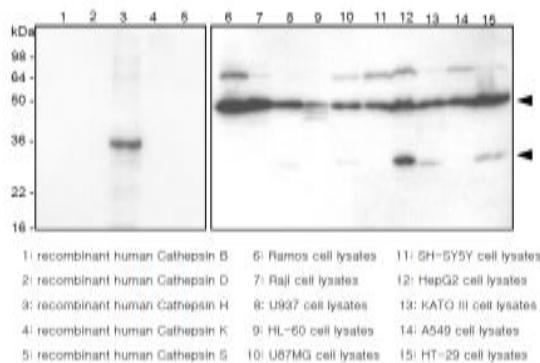
Storage & Stability: Can be stored at +4C. For long term storage, aliquot and store at -20C. **Avoid repeated freezing and thawing cycles.**

Western Blot Analysis: The recombinant proteins (Cathepsin B, D, H, K and S), and the extracts (40ug) of various tumor cell lines were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human cathepsin H antibody (1:1,000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system. The upper arrow is a precathepsin H form, and the lower arrow is a mature form of cathepsin H.

Western blot analysis

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