

ARG59662 anti-Cystatin B / Stefin B antibody [2B6]

Package: 50 µg
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [2B6] recognizes Cystatin B / Stefin B
Tested Reactivity	Hu
Tested Application	FACS, IHC-P, WB
Host	Mouse
Clonality	Monoclonal
Clone	2B6
Isotype	IgG1
Target Name	Cystatin B / Stefin B
Species	Human
Immunogen	Recombinant protein corresponding to M1-F98 of Human Stefin B.
Conjugation	Un-conjugated
Alternate Names	Liver thiol proteinase inhibitor; EPM1; CPI-B; EPM1A; Cystatin-B; Stefin-B; PME; CST6; ULD; STFB

Application Instructions

Application table	Application	Dilution
	FACS	1 - 3 µg/10 ⁶ cells
	IHC-P	0.5 - 1 µg/ml
	WB	0.1 - 0.5 µg/ml
Application Note	IHC-P: Antigen Retrieval: Heat mediation was performed in Citrate buffer (pH 6.0) for 20 min. * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

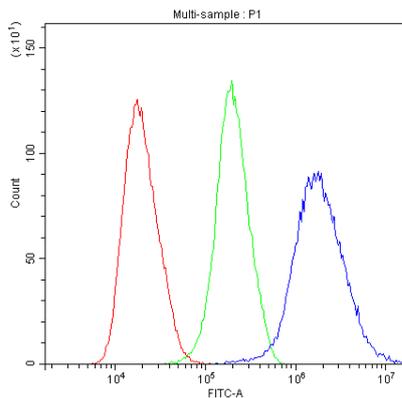
Properties

Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	0.9% NaCl, 0.2% Na ₂ HPO ₄ , 0.05% Sodium azide and 4% Trehalose.
Preservative	0.05% Sodium azide
Stabilizer	4% Trehalose
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Bioinformation

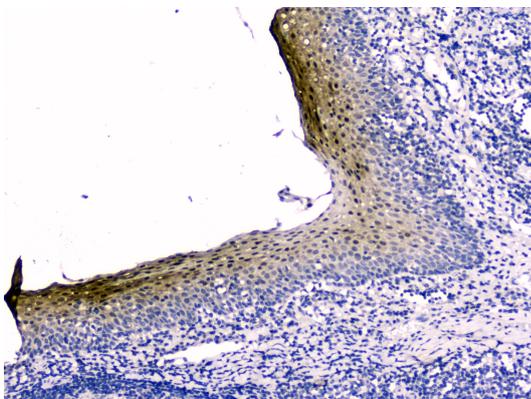
Gene Symbol	CSTB
Gene Full Name	cystatin B (stefin B)
Background	The cystatin superfamily encompasses proteins that contain multiple cystatin-like sequences. Some of the members are active cysteine protease inhibitors, while others have lost or perhaps never acquired this inhibitory activity. There are three inhibitory families in the superfamily, including the type 1 cystatins (stefins), type 2 cystatins and kininogens. This gene encodes a stefin that functions as an intracellular thiol protease inhibitor. The protein is able to form a dimer stabilized by noncovalent forces, inhibiting papain and cathepsins I, h and b. The protein is thought to play a role in protecting against the proteases leaking from lysosomes. Evidence indicates that mutations in this gene are responsible for the primary defects in patients with progressive myoclonic epilepsy (EPM1). [provided by RefSeq, Jul 2008]
Function	This is an intracellular thiol proteinase inhibitor. Tightly binding reversible inhibitor of cathepsins L, H and B. [UniProt]
Calculated Mw	11 kDa
Cellular Localization	Cytoplasm. Nucleus. [UniProt]

Images



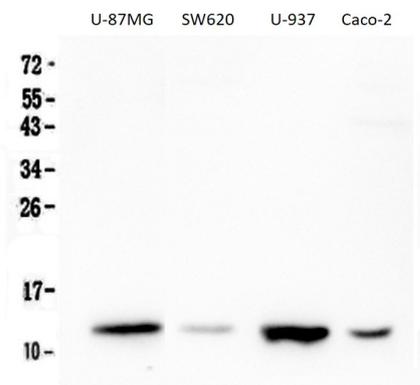
ARG59662 anti-Cystatin B / Stefin B antibody [2B6] FACS image

Flow Cytometry: PC-3 cells were blocked with 10% normal goat serum and then stained with ARG59662 anti-Cystatin B / Stefin B antibody [2B6] (blue) at $1 \mu\text{g}/10^6$ cells for 30 min at 20°C , followed by DyLight[®]488 labelled secondary antibody. Isotype control antibody (green) was Mouse IgG ($1 \mu\text{g}/10^6$ cells) used under the same conditions. Unlabelled sample (red) was also used as a control.



ARG59662 anti-Cystatin B / Stefin B antibody [2B6] IHC-P image

Immunohistochemistry: Paraffin-embedded Human tonsil tissue. Antigen Retrieval: Heat mediation was performed in Citrate buffer (pH 6.0, epitope retrieval solution) for 20 min. The tissue section was blocked with 10% goat serum. The tissue section was then stained with ARG59662 anti-Cystatin B / Stefin B antibody [2B6] at $2 \mu\text{g}/\text{ml}$, overnight at 4°C .



ARG59662 anti-Cystatin B / Stefin B antibody [2B6] WB image

Western blot: 50 µg of samples under reducing conditions. U-87MG, SW620, U-937 and Caco-2 whole cell lysates stained with ARG59662 anti-Cystatin B / Stefin B antibody [2B6] at 0.5 µg/ml, overnight at 4°C.