ARG56951
anti-Cystatin B / Stefin B antibody [2F1]

Package: 50 µl
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [2F1] recognizes Cystatin B / Stefin B
Tested Reactivity	Hu
Tested Application	ICC/IF, WB
Host	Mouse
Clonality	Monoclonal
Clone	2F1
Isotype	IgG2b, kappa
Target Name	Cystatin B / Stefin B
Species	Human
Immunogen	Recombinant fragment around aa. 1-98 of Human Cystatin B / 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
ICC/IF	Assay-dependent
WB	1:1000 - 1:2000

Application Note: * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

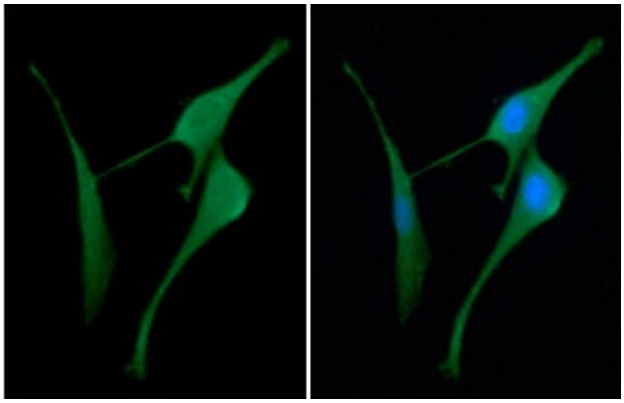
Properties

Form	Liquid
Purification	Purification with Protein G.
Buffer	PBS (pH 7.4), 0.02% Sodium azide and 10% Glycerol.
Preservative	0.02% Sodium azide
Stabilizer	10% Glycerol
Concentration	1 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. 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.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Database links	GeneID: 1476 Human Swiss-port # P04080 Human
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 l, 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

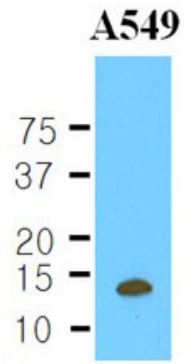
Images



ARG56951 anti-Cystatin B / Stefin B antibody [2F1] ICC/IF image

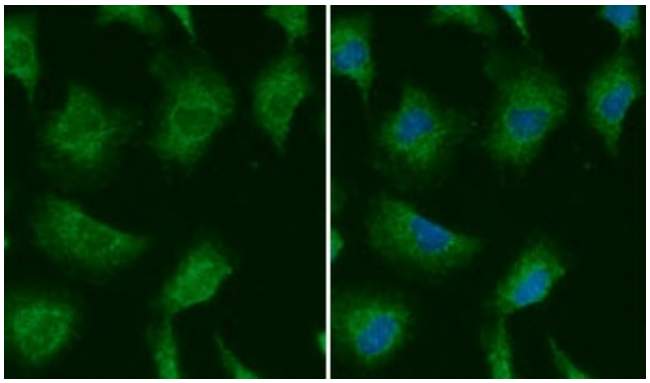
Immunoflorescense: U87MG cell line stained with ARG56951 anti-Cystatin B / Stefin B antibody [2F1] at 1:100 (Green).

DAPI (Blue) for nucleus staining.



ARG56951 anti-Cystatin B / Stefin B antibody [2F1] WB image

Western blot: 35 µg of A549 stained with ARG56951 anti-Cystatin B / Stefin B antibody [2F1] at 1:1000.



ARG56951 anti-Cystatin B / Stefin B antibody [2F1] ICC/IF image

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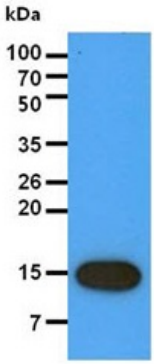
DAPI (Blue) for nucleus staining.



ARG56951 anti-Cystatin B / Stefin B antibody [2F1] WB image

Western blot: 40 µg of U-87MG cell lysate stained with ARG56951 anti-Cystatin B / Stefin B antibody [2F1] at 1:1000.