

Cathepsin L Monoclonal Antibody (33-2), eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Human
Published Species	Human
Host/Isotype	Mouse / IgG1
Class	Monoclonal
Type	Antibody
Clone	33-2
Conjugate	Unconjugated
Form	Liquid
Concentration	1 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2-7.4
Contains	no preservative
Storage conditions	-20°C
RRID	AB_10596643

Applications	Tested Dilution	Publications
Western Blot (WB)	1 µg/mL	1 Publication
Immunohistochemistry (Frozen) (IHC (F))	Assay-Dependent	-
Immunocytochemistry (ICC/IF)	5 µg/mL	-
ELISA (ELISA)	Assay-Dependent	-

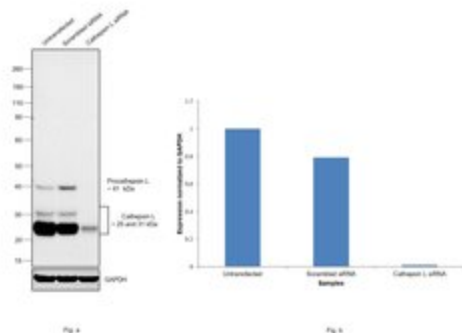
Product Specific Information

Description: Cathepsin L is a lysosomal cysteine proteinase consisting of a heavy chain of about 25 kDa and a light chain of about 5 kDa derived proteolytically from the same precursor. Cathepsin L has been shown to be produced by many different cell types. Since cathepsin L is capable of degrading protein constituents of the extracellular matrix it is assumed to play a crucial role in tumor progression and metastasis and a number of other disorders where the destruction of the extracellular matrix is the major cause of disease (e.g. rheumatoid arthritis, neurodegeneration).

Applications Tested: ELISA, Immunohistochemistry (Frozen), Western Blotting.

Cathepsin L Antibody (BMS1032)

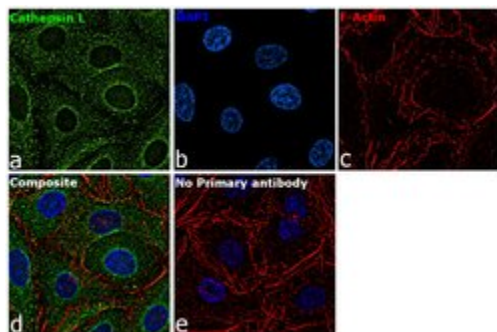
Antibody specificity was demonstrated by siRNA mediated knockdown of target protein. A549 cells were transfected with Cathepsin L siRNA and decrease in signal intensity was observed in Western Blot application using Anti-Cathepsin L Monoclonal Antibody (33-2), eBioscience™ (Product # BMS1032). Knockdown validation info.



Product Images For Cathepsin L Monoclonal Antibody (33-2), eBioscience™

Cathepsin L Antibody (BMS1032) in ICC/IF

Immunofluorescence analysis of Cathepsin L was performed using 70% confluent log phase A549 cells. The cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton™ X-100 for 15 minutes, and blocked with 2% BSA for 45 minutes at room temperature. The cells were labeled with Cathepsin L Monoclonal Antibody (33-2), eBioscience™ (Product # BMS1032) at 5 µg/mL in 0.1% BSA, incubated at 4 degree celsius overnight and then labeled with Goat anti-Mouse IgG (H+L) Highly Cross-Adsorbed Secondary Antibody, Alexa Fluor Plus 488 (Product # A32723), (1:2000), for 45 minutes at room temperature (Panel a: Green). Nuclei (Panel b:Blue) were stained with ProLong™ Diamond Antifade Mountant with DAPI (Product # P36962). F-actin (Panel c: Red) was stained with Rhodamine Phalloidin (Product # R415, 1:300). Panel d represents the merged image showing cytoplasmic localization. Panel e represents control cells with no primary antibody to assess background. The images were captured at 60X magnification.



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1 Reference

Western Blot (1)

Oncotarget

Obatoclox impairs lysosomal function to block autophagy in cisplatin-sensitive and -resistant esophageal cancer cells.

"BMS1032 was used in western blot to investigate the effect of Obatoclox in esophageal cancer cells"

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Species
Human

Dilution
1:1000

Year
2016

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