Cathepsin L Monoclonal Antibody (33/2)

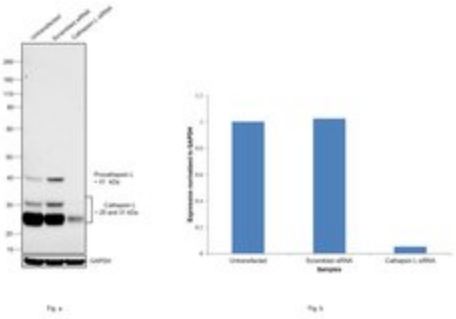
Product Details	
Size	100 µL
Species Reactivity	Human, Mink, Mouse, Rat
Published Species	Human
Host/Isotype	Mouse / IgG1
Class	Monoclonal
Type	Antibody
Clone	33/2
Conjugate	Unconjugated
Immunogen	Purified, full length, native protein from human lung cancer line EPLC 32 M1.
Form	Liquid
Concentration	6 mg/mL
Storage buffer	Ascites
Contains	15mM sodium azide
Storage conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.
RRID	AB_2276888

Applications	Tested Dilution	Publications
Western Blot (WB)	1:200-1:1,000	-
Immunohistochemistry (Frozen) (IHC (F))	Assay-dependent	-
ELISA (ELISA)	Assay-dependent	-
Gel Shift (GS)	-	1 Publication

Product Specific Information

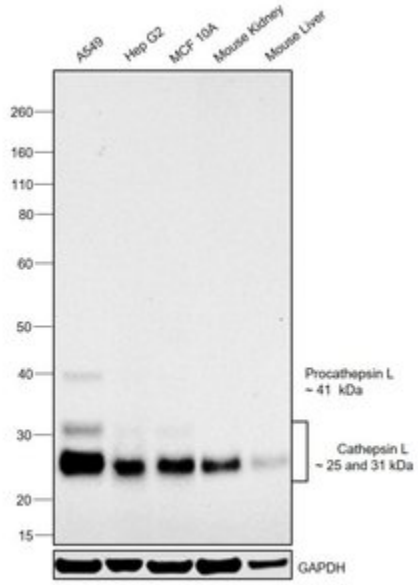
Recommended positive controls: mink lung cell.

Advanced Verification Data

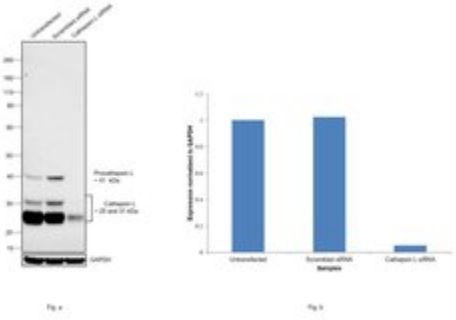


Cathepsin L Antibody (MA1-26774)
Antibody specificity was demonstrated by siRNA mediated knockdown of target protein. A549 cells were transfected with Cathepsin L siRNA and decrease in signal intensity was observed in Western Blot application using Anti-Cathepsin L Monoclonal Antibody (33/2) (Product # MA1-26774). Knockdown validation info.

Product Images For Cathepsin L Monoclonal Antibody (33/2)



Cathepsin L Antibody (MA1-26774) in WB
Western blot was performed using Anti-Cathepsin L Monoclonal Antibody (33/2) (Product # MA1-26774) and a 25kDa band corresponding to the mature form of Cathepsin L was observed across cell lines and tissue extracts tested. An additional faint bands around 41kDa which corresponds to the Procathepsin L and 31kDa which also corresponds to the mature form of Cathepsin L was observed in A549. Whole cell extracts (30 µg lysate) of A549 (Lane 1), Hep G2 (Lane 2), MCF 10A (Lane 3) and tissue extracts of Mouse Kidney (Lane 4) and Mouse Liver (Lane 5) were electrophoresed using NuPAGE™ 4-12% Bis-Tris Protein Gel (Product # NP0322BOX). Resolved proteins were then transferred onto a Nitrocellulose membrane (Product # IB23001) by iBlot® 2 Dry Blotting System (Product # IB21001). The blot was probed with the primary antibody (1:1000 dilution) and detected by chemiluminescence with Goat anti-Mouse IgG (H+L) Superclonal™ Recombinant Secondary Antibody, HRP (Product # A28177,1:4000 dilution) using the iBright FL 1000 (Product # A32752). Chemiluminescent detection was performed using Novex® ECL Chemiluminescent Substrate Reagent Kit (Product # WP20005).



Cathepsin L Antibody (MA1-26774) in WB
Knockdown of Cathepsin L was achieved by transfecting A549 with Cathepsin L specific siRNAs (Silencer® select Product # S223364, S3754). Western blot analysis (Fig. a) was performed using Whole cell extracts from the Cathepsin L knockdown cells (lane 3), non-targeting scrambled siRNA transfected cells (lane 2) and untransfected cells (lane 1). The blot was probed with Cathepsin L Monoclonal Antibody (33/2) (Product # MA1-26774, 1:1000 dilution) and Goat anti-Mouse IgG (H+L) Superclonal™ Recombinant Secondary Antibody, HRP (Product # A28177, 1: 4000 dilution). Densitometric analysis of all three expected bands of this western blot is shown in histogram (Fig. b). Decrease in signal upon siRNA mediated knock down confirms that antibody is specific to Cathepsin L.

1 Reference

Gel Shift (1)

Science (New York, N.Y.)

Identification of an estrogen response element activated by metabolites of 17beta-estradiol and raloxifene.

"MA1-26774 was used in EMSA assay to investigate the mechanism for the regulation of gene expression by 17 beta-estradiol and raloxifene"

Authors: Yang NN,Venugopalan M,Hardikar S,Glasebrook A

Species
Human

Dilution
Not Cited

Year
1996