


Anti-Cathepsin L + V antibody [33/2] ab6314

★★★★★ [5 Abreviews](#) [32 References](#) [5 Images](#)

Overview

Product name	Anti-Cathepsin L + V antibody [33/2]
Description	Mouse monoclonal [33/2] to Cathepsin L + V
Host species	Mouse
Specificity	Reacts specifically with the native and denatured forms of human cathepsin L (25kD) and procathepsin L (42 kD). Does not react with human cathepsin types B1, D1, H and S1, procathepsins B and D1 and recombinant procathepsin H, rat cathepsin B1, and mouse procathepsins B1 and D1.
Tested applications	Suitable for: WB, IHC-P Unsuitable for: Flow Cyt
Species reactivity	Reacts with: Mouse, Human Predicted to work with: Rat 
Immunogen	Full length native protein (purified). This information is proprietary to Abcam and/or its suppliers.
Epitope	Recognizes an epitope within amino acid residues GYGFEET (265-271 in procathepsin L and 169-175 in the mature cathepsin L molecule).
Positive control	WB: Human and Mouse lung tissue lysates. Human, Mouse tissue lysates. IHC-P: FFPE Human colon adenocarcinoma tissue sections.
General notes	<p>This antibody clone is manufactured by Abcam. If you require a custom buffer formulation or conjugation for your experiments, please contact orders@abcam.com.</p> <p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.

Storage buffer pH: 7.40
Preservative: 0.02% Sodium azide
Constituents: PBS, 6.97% L-Arginine

Some batches contain 6.97% L-Arginine as a stabilizing agent. For lot-specific buffer information, please contact our Scientific Support team.

Purity Protein G purified
Clonality Monoclonal
Clone number 33/2
Isotype IgG1

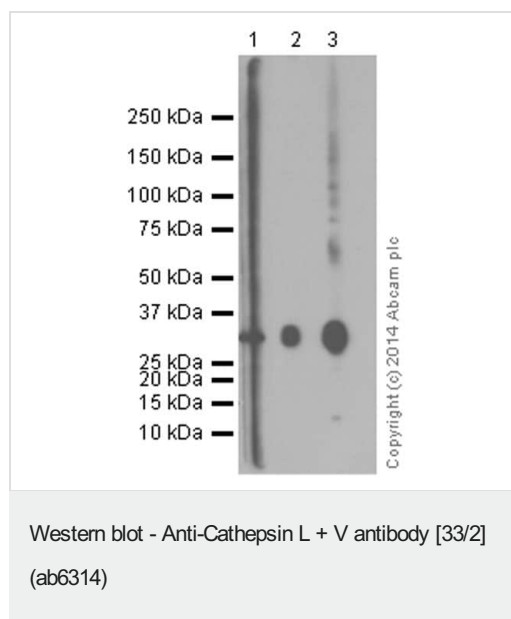
Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab6314 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB	★★★★★ (4)	1/1000. Detects a band of approximately 25 kDa (predicted molecular weight: 38 kDa). Abcam recommends using 3% milk as the blocking agent.
IHC-P	★★★★★ (1)	Use at an assay dependent concentration.

Application notes Is unsuitable for Flow Cyt.

Images



Lane 1 : Anti-Cathepsin L/V/K/H antibody [EPR8011] ([ab133641](#)) at 1/20 dilution

Lane 2 : Anti-Cathepsin L + V antibody [33/2] (ab6314) at 1/100 dilution

Lane 3 : Anti-His tag at 1/10000 dilution

All lanes : Human Cathepsin L recombinant protein fraction

Secondary

Lanes 1 & 3 : Peroxidase conjugated Goat Anti-Rabbit IgG, (H+L) at 1/1000 dilution

Lane 2 : Rabbit anti-Mouse IgG at 1/2000 dilution

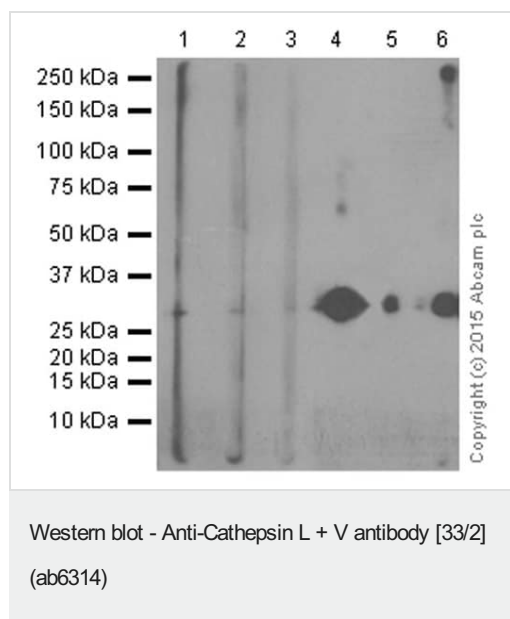
Predicted band size: 38 kDa

Blocking buffer and concentration:5% NFDm/TBST

Diluting buffer and concentration:5% NFDm/TBST

Observed MW:30

Exposure time:3 minutes



Lane 1 : Anti-Cathepsin L/V/K/H antibody [EPR8011] ([ab133641](#))

at 1/20 dilution

Lane 2 : Anti-Cathepsin L/V/K/H antibody [EPR8011] ([ab133641](#))

at 1/100 dilution

Lane 3 : Anti-Cathepsin L/V/K/H antibody [EPR8011] ([ab133641](#))

at 1/500 dilution

Lane 4 : Anti-Cathepsin L + V antibody [33/2] (ab6314) at 1/100 dilution

Lane 5 : Anti-Cathepsin L + V antibody [33/2] (ab6314) at 1/1000 dilution

Lane 6 : Anti-His tag at 1/10000 dilution

All lanes : Human Cathepsin V recombinant protein fraction

Secondary

Lanes 1-3 : Peroxidase conjugated Goat Anti-Rabbit IgG, (H+L) at 1/1000 dilution

Lanes 4-5 : Rabbit Anti-Mouse secondary ab at 1/2000 dilution

Lane 6 : Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution

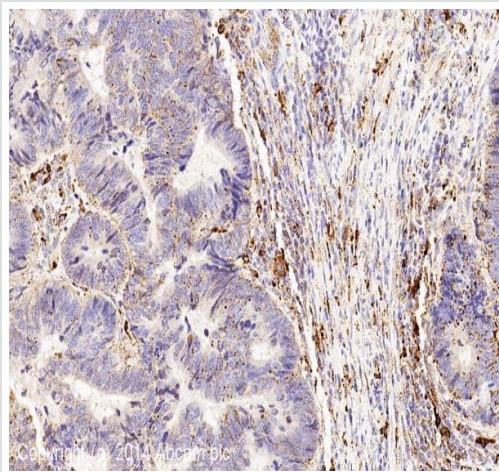
Predicted band size: 38 kDa

Blocking buffer and concentration:5% NFDm/TBST

Diluting buffer and concentration:5% NFDm/TBST

Observed MW:30

Exposure time:3 minutes

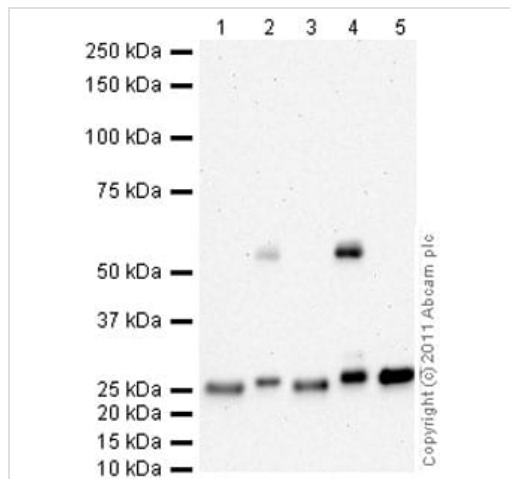


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cathepsin L + V antibody [33/2] (ab6314)

IHC image of Cathepsin L staining in human colon adenocarcinoma formalin fixed paraffin embedded tissue section*, performed on a Leica Bond™ system using the standard protocol F. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20 mins. The section was then incubated with ab6314, 0.5µg/ml, for 15 mins at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times.

*Tissue obtained from the Human Research Tissue Bank, supported by the NIHR Cambridge Biomedical Research Centre



Western blot - Anti-Cathepsin L + V antibody [33/2] (ab6314)

All lanes : Anti-Cathepsin L + V antibody [33/2] (ab6314) at 1/1000 dilution (3% milk block)

Lane 1 : Lung (Human) Tissue Lysate

Lane 2 : Lung (Mouse) Tissue Lysate

Lane 3 : Human kidney tissue lysate - total protein ([ab30203](#))

Lane 4 : Kidney (Mouse) Tissue Lysate

Lane 5 : A549 whole cell lysate

Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Goat Anti-Mouse IgG H&L (HRP) preadsorbed ([ab97040](#)) at 1/5000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

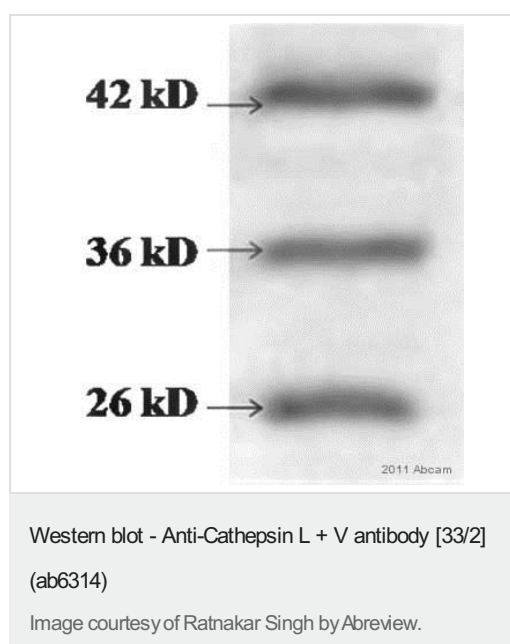
Predicted band size: 38 kDa

Observed band size: 25 kDa

Additional bands at: 55 kDa. We are unsure as to the identity of these extra bands.

Exposure time: 20 minutes

Abcam recommends using milk as the blocking agent. Abcam welcomes customer feedback and would appreciate any comments regarding this product and the data presented above.



Anti-Cathepsin L + V antibody [33/2] (ab6314) at 1/750 dilution + whole cell lysate prepared from U87MG human glioblastoma at 50 µg

Secondary

Goat anti-mouse HRP at 1/2000 dilution

Predicted band size: 38 kDa

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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