abcam

Product datasheet

Anti-Cystatin-B antibody ab236646

6 Images

Overview

Product name	Anti-Cystatin-B antibody
Description	Rabbit polyclonal to Cystatin-B
Host species	Rabbit
Tested applications	**Suitable for:** ICC/IF, IP, IHC-P, WB
Species reactivity	**Reacts with:** Human **Predicted to work with:** Chimpanzee, Gorilla
Immunogen	Recombinant full length protein corresponding to Human Cystatin-B aa 1 to the C-terminus. Database link: **P04080** Run BLAST with Run BLAST with
Positive control	WB: EC109, HEK-293T, HepG2, MCF7, A549, U-87 MG and HEK-293T whole cell lysates. IHC-P: Human colon cancer and lung cancer tissues. ICC/IF: HepG2 cells. IP: HepG2 whole cell lysate.
General notes	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. 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

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 long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.40 Preservative: 0.03% Proclin 300 Constituents: 50% Glycerol (glycerin, glycerine), PBS
Purity	Protein G purified
Purification notes	Purity >95%.
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab236646 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
ICC/IF		1/50 - 1/200.
IP		1/200 - 1/2000.
IHC-P		1/20 - 1/200.
WB		1/1000 - 1/5000. Predicted molecular weight: 11 kDa.

Target

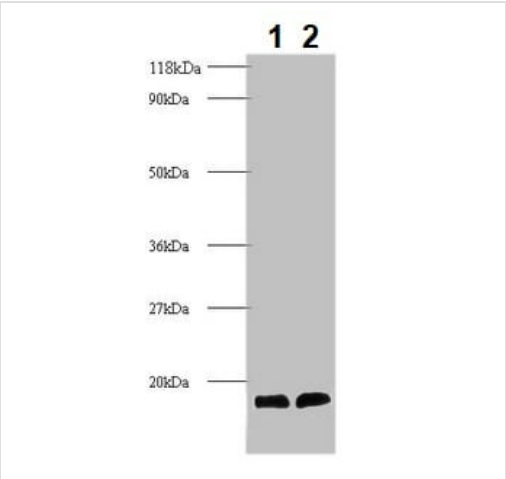
Function This is an intracellular thiol proteinase inhibitor. Tightly binding reversible inhibitor of cathepsins L, H and B.

Involvement in disease Defects in CSTB are the cause of progressive myoclonic epilepsy type 1 (EPM1) [MIM:254800]. EPM1 is an autosomal recessive disorder characterized by severe, stimulus-sensitive myoclonus and tonic-clonic seizures. The onset, occurring between 6 and 13 years of age, is characterized by convulsions. Myoclonus begins 1 to 5 years later. The twitchings occur predominantly in the proximal muscles of the extremities and are bilaterally symmetrical, although asynchronous. At first small, they become late in the clinical course so violent that the victim is thrown to the floor. Mental deterioration and eventually dementia develop.

Sequence similarities Belongs to the cystatin family.

Cellular localization Cytoplasm. Nucleus.

Images



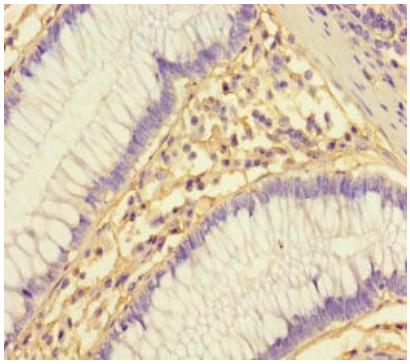
Western blot - Anti-Cystatin-B antibody (ab236646)

All lanes : Anti-Cystatin-B antibody (ab236646) at 1/1000 dilution

Lane 1 : EC109 whole cell lysate
Lane 2 : HEK-293T (human epithelial cell line from embryonic kidney transformed with large T antigen) whole cell lysate

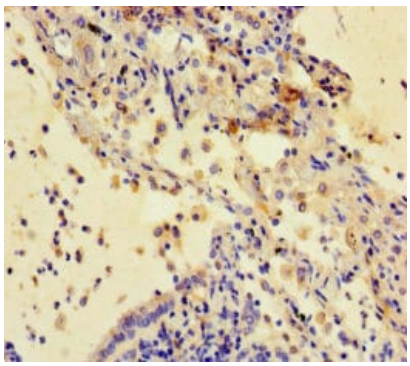
Secondary
All lanes : Goat polyclonal to Rabbit IgG at 1/50000 dilution

Predicted band size: 11 kDa



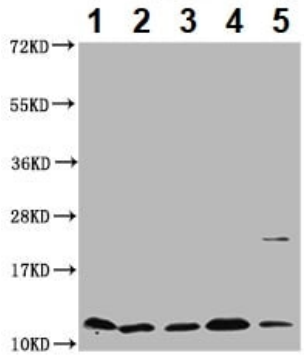
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cystatin-B antibody (ab236646)

Paraffin-embedded human colon cancer tissue stained for Cystatin-B using ab236646 at 1/100 dilution in immunohistochemical analysis.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cystatin-B antibody (ab236646)

Paraffin-embedded human lung cancer tissue stained for Cystatin-B using ab236646 at 1/100 dilution in immunohistochemical analysis.



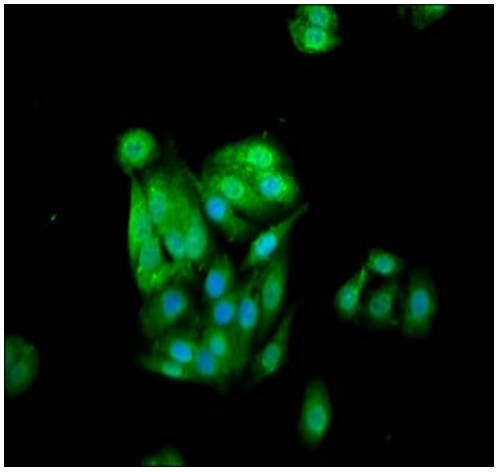
Western blot - Anti-Cystatin-B antibody (ab236646)

All lanes : Anti-Cystatin-B antibody (ab236646) at 1/1000 dilution

Lane 1 : HepG2 (human liver hepatocellular carcinoma cell line) whole cell lysate
Lane 2 : MCF7 (human breast adenocarcinoma cell line) whole cell lysate
Lane 3 : A549 (human lung carcinoma cell line) whole cell lysate
Lane 4 : U-87 MG (human glioblastoma-astrocytoma epithelial cell line) whole cell lysate
Lane 5 : HEK-293T (human epithelial cell line from embryonic kidney transformed with large T antigen) whole cell lysate

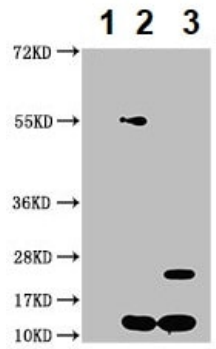
Secondary
All lanes : Goat polyclonal to rabbit IgG at 1/50000 dilution

Predicted band size: 11 kDa



Immunocytochemistry/ Immunofluorescence - Anti-Cystatin-B antibody (ab236646)

4% formaldehyde-fixed, 0.2% Triton X-100 permeabilized HepG2 (human liver hepatocellular carcinoma cell line) cells stained for Cystatin-B (green) using ab236646 at 1/133 dilution in ICC/IF, followed by Alexa Fluor 488® conjugated Goat Anti-Rabbit IgG (H+L). Counter-stained with DAPI.



Immunoprecipitation - Anti-Cystatin-B antibody (ab236646)

Cystatin-B was immunoprecipitated from 500 µg HepG2 (human liver hepatocellular carcinoma cell line) whole cell lysate with ab236646 at 1/200 dilution.

Lane 1: Rabbit control IgG IP in HepG2 whole cell lysate.

Lane 2: ab236646 IP in HepG2 whole cell lysate.

Lane 3: HepG2 whole cell lysate 20 µg (Input).

For western blotting, an HRP-conjugated Protein G antibody was used as the secondary antibody at 1/2000 dilution.

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