Overview

Product name: Anti-Cystatin C antibody [Cyst-13]
Description: Mouse monoclonal [Cyst-13] to Cystatin C
Host species: Mouse
Tested applications: Suitable for: Sandwich ELISA, ELISA, ICC/IF, WB
Species reactivity: Reacts with: Human
Immunogen: Full length Cystatin C protein (Human) conjugated to BSA.
General notes: Abcam is committed to meeting high standards of ethical manufacturing and has decided to discontinue this product by June 2019 as it has been generated by the ascites method. We are sorry for any inconvenience this may cause.

Properties

Form: Liquid
Storage instructions: Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer: Preservative: 0.1% Sodium Azide
Constituents: PBS, pH 7.4
Purity: Ascites
Purification notes: Purified from ascites.
Clonality: Monoclonal
Clone number: Cyst-13
Myeloma: Sp2/0
Isotype: IgG1

Applications

Our Abpromise guarantee covers the use of ab24327 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.
### Function
As an inhibitor of cysteine proteinases, this protein is thought to serve an important physiological role as a local regulator of this enzyme activity.

### Tissue specificity
Expressed in submandibular and sublingual saliva but not in parotid saliva (at protein level).
Expressed in various body fluids, such as the cerebrospinal fluid and plasma. Expressed in highest levels in the epididymis, vas deferens, brain, thymus, and ovary and the lowest in the submandibular gland.

### Involvement in disease
- Amyloidosis 6
- Macular degeneration, age-related, 11

### Sequence similarities
Belongs to the cystatin family.

### Post-translational modifications
The Thr-25 variant is O-glycosylated with a core 1 or possibly core 8 glycan. The signal peptide of the O-glycosylated Thr-25 variant is cleaved between Ala-20 and Val-21.

### Cellular localization
Secreted.

### Images
- Standard Curve for Cystatin C (Analyte: ab7653) dilution range 1pg/ml to 1ug/ml using Capture Antibody Mouse monoclonal [Cyst-13] to Cystatin C (ab24327) at 1ug/ml and Detector Antibody Rabbit polyclonal to Cystatin C (ab85790) at 0.5ug/ml
ICC/IF image of ab24327 stained HepG2 cells. The cells were 4% formaldehyde fixed (10 min) and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab24327, 1µg/ml) overnight at +4°C. The secondary antibody (green) was Alexa Fluor® 488 goat anti-mouse IgG (H+L) used at a 1/1000 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM.

Please note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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