

Datasheet for ABIN5647087

anti-Calpastatin antibody (AA 275-310)

5 Images

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Overview

Quantity:	100 µg
Target:	Calpastatin (CAST)
Binding Specificity:	AA 275-310
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Flow Cytometry (FACS)

Product Details

Immunogen:	Amino acids 275-310 (QEKRRKVEKDTMSDQALEALSASLGTRQAEPELDLR-human) were used as the immunogen for the Calpastatin antibody.
Isotype:	IgG
Purification:	Antigen affinity purified

Target Details

Target:	Calpastatin (CAST)
Alternative Name:	Calpastatin (CAST Products)
Background:	Calpastatin is a protein that in humans is encoded by the CAST gene. It is mapped to 5q15. The protein encoded by this gene is an endogenous calpain (calcium-dependent cysteine protease) inhibitor. It consists of an N-terminal domain L and four repetitive calpain-inhibition domains

Target Details

(domains 1-4), and it is involved in the proteolysis of amyloid precursor protein. The calpain/calpastatin system is involved in numerous membrane fusion events, such as neural vesicle exocytosis and platelet and red-cell aggregation. The encoded protein is also thought to affect the expression levels of genes encoding structural or regulatory proteins. Alternatively spliced transcript variants encoding different isoforms have been described.

UniProt: [P20810](#)

Application Details

Application Notes: Optimal dilution of the Calpastatin antibody should be determined by the researcher.\. Western blot: 0.5-1 µg/mL,FACS: 1-3 µg/10⁶ cells,Immunohistochemistry (FFPE): 1-2 µg/mL

Restrictions: For Research Use only

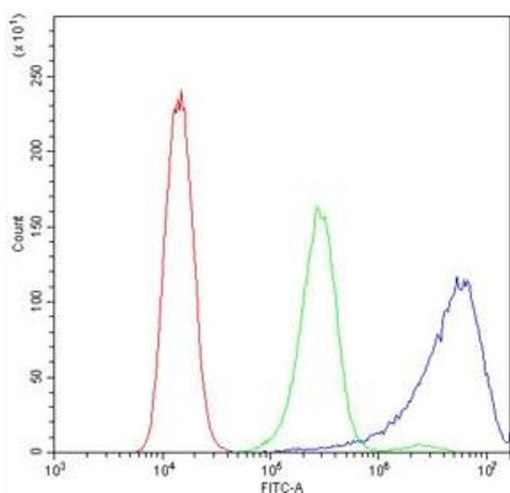
Handling

Buffer: 0.5 mg/mL if reconstituted with 0.2 mL sterile DI water

Storage: -20 °C

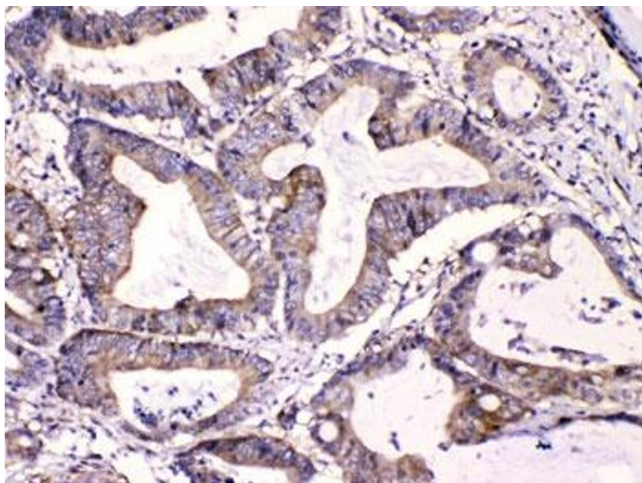
Storage Comment: After reconstitution, the Calpastatin antibody can be stored for up to one month at 4°C. For long-term, aliquot and store at -20°C. Avoid repeated freezing and thawing.

Images



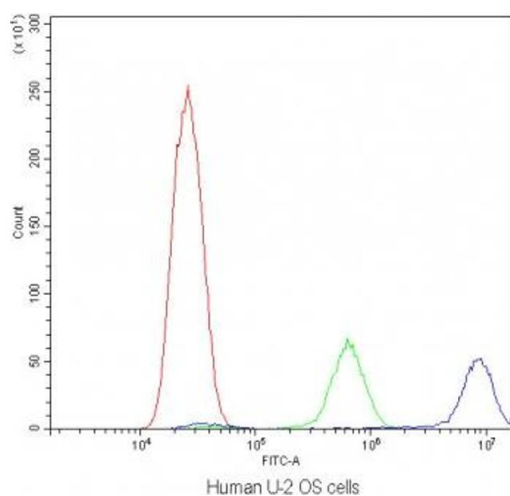
Flow Cytometry

Image 1. Flow cytometry testing of human A431 cells with Calpastatin antibody at 1ug/10⁶ cells (blocked with goat sera)



Immunohistochemistry

Image 2. IHC testing of FFPE human intestinal cancer tissue with Calpastatin antibody at 1ug/ml. HIER: steam section in pH6 citrate buffer for 20 min.



Flow Cytometry

Image 3. Flow cytometry testing of human U-2 OS cells with Calpastatin antibody at 1ug/10⁶ cells (blocked with goat sera)

Please check the [product details page](#) for more images. Overall 5 images are available for ABIN5647087.