

Product datasheet

Anti-DCSTAMP antibody ab238151

[1 References](#) [3 Images](#)

Overview

Product name	Anti-DCSTAMP antibody
Description	Rabbit polyclonal to DCSTAMP
Host species	Rabbit
Tested applications	Suitable for: IHC-P, ICC/IF
Species reactivity	Reacts with: Human
Immunogen	Recombinant fragment corresponding to Human DCSTAMP aa 100-250. Database link: Q9H295 Run BLAST with Run BLAST with
Positive control	IHC-P: Human kidney and liver tissue. ICC/IF: HepG2 cells.
General notes	<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 long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.40 Preservative: 0.03% Proclin 300 Constituents: PBS, 50% Glycerol (glycerin, glycerine)
Purity	Protein G purified
Purification notes	Purity >95%
Clonality	Polyclonal
Isotype	IgG

Applications

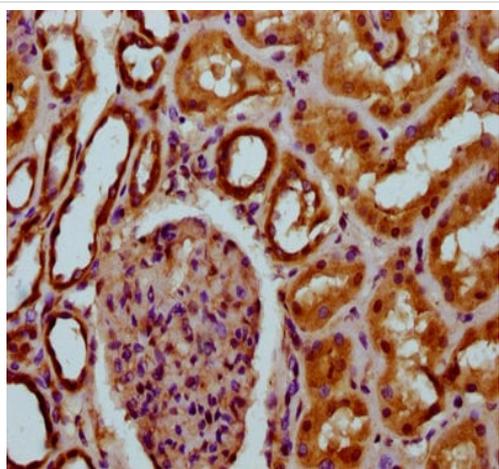
The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab238151 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P		1/200 - 1/500.
ICC/IF		1/50 - 1/200.

Target

Function	Probable cell surface receptor that plays several roles in cellular fusion, cell differentiation, bone and immune homeostasis. Plays a role in TNFSF11-mediated osteoclastogenesis. Cooperates with OCSTAMP in modulating cell-cell fusion in both osteoclasts and foreign body giant cells (FBGCs). Participates in osteoclast bone resorption. Involved in inducing the expression of tartrate-resistant acid phosphatase in osteoclast precursors. Plays a role in haematopoietic stem cell differentiation of bone marrow cells toward the myeloid lineage. Inhibits the development of neutrophilic granulocytes. Plays also a role in the regulation of dendritic cell (DC) antigen presentation activity by controlling phagocytic activity. Involved in the maintenance of immune self-tolerance and avoidance of autoimmune reactions.
Tissue specificity	Preferentially expressed by dendritic cells (DCs). Detected in both immature and mature DCs. Highly expressed in lymph nodes, lung, kidney and liver. Expressed at lower levels in pancreas, bone marrow, spleen, leukocytes, in freshly isolated peripheral blood mononuclear cells (PBMC) and B-cells. Not expressed in freshly isolated monocytes.
Developmental stage	Constitutively expressed in dendritic cells from day 3-8 in culture.
Domain	Several domains are necessary for interacting with OS9. The region in the cytoplasmic tail that is necessary for interaction with OS9, is also required for its transport.
Post-translational modifications	Glycosylated.
Cellular localization	Cell membrane. Endoplasmic reticulum membrane. Endoplasmic reticulum-Golgi intermediate compartment membrane. Endosome. Localizes to the cell surface in osteoclasts and undifferentiated monocytes. Intracellular internalized DCSTAMP is detected in a fraction of RANKL-induced osteoclast precursor. Colocalizes with OS9 in the endoplasmic reticulum (ER) of immature dendritic cell (DC). Translocates from the endoplasmic reticulum to the intermediate/Golgi compartment upon maturation of DC in a OS9-dependent manner. Colocalizes with LAMP1 in endosomes.

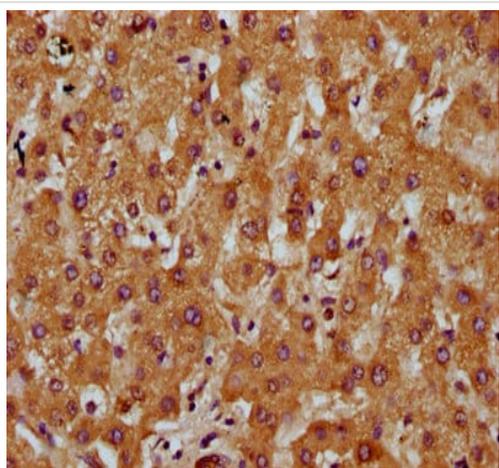
Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-DCSTAMP antibody (ab238151)

Paraffin-embedded human kidney tissue stained for DCSTAMP using ab238151 at 1/200 dilution in immunohistochemical analysis.

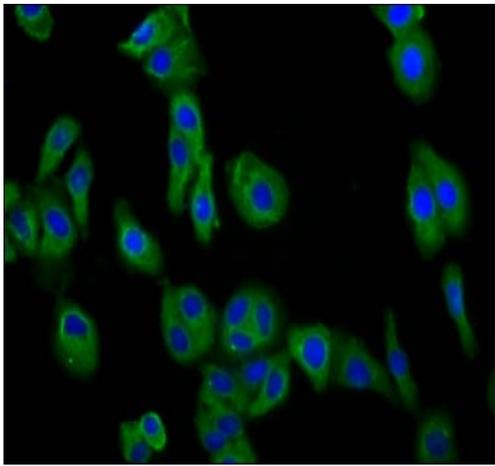
After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum for 30 minutes at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a biotinylated secondary antibody and visualized using an HRP conjugated SP system.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-DCSTAMP antibody (ab238151)

Paraffin-embedded human liver tissue stained for DCSTAMP using ab238151 at 1/200 dilution in immunohistochemical analysis.

After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum for 30 minutes at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a biotinylated secondary antibody and visualized using an HRP conjugated SP system.



Immunocytochemistry/ Immunofluorescence - Anti-DCSTAMP antibody (ab238151)

HepG2 (human liver hepatocellular carcinoma cell line) cells stained for DCSTAMP (green) using ab238151 at 1/66 dilution in ICC/IF. Secondary antibody is Alexa Fluor[®] 488-conjugated Goat Anti-Rabbit IgG (H+L). The nuclear counter stain is DAPI.

The cells were fixed in 4% formaldehyde, permeabilized using 0.2% Triton X-100 and blocked in 10% normal Goat Serum. The cells were then incubated with the antibody overnight at 4°C.

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

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors