


Product datasheet

Anti-Sulfatase 1/SULF1 antibody ab32763

★★★★☆ 5 Abreviews 7 References 1 Image

Overview

Product name	Anti-Sulfatase 1/SULF1 antibody
Description	Rabbit polyclonal to Sulfatase 1/SULF1
Host species	Rabbit
Tested applications	Suitable for: IHC-P, WB
Species reactivity	Reacts with: Human Predicted to work with: Mouse, Rat, Dog, Quail 
Immunogen	Synthetic peptide corresponding to Human Sulfatase 1/SULF1 aa 850 to the C-terminus (C terminal) conjugated to keyhole limpet haemocyanin. (Peptide available as ab32762)
Positive control	IHC-P: Normal human skeletal muscle.
General notes	This product was previously labelled as Sulfatase 1

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	Preservative: 0.02% Sodium Azide Constituents: 1% BSA, PBS, pH 7.4
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab32763** 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	★★★★☆	Use a concentration of 0.1 - 0.5 µg/ml. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
WB	★★★★☆	Use at an assay dependent concentration.

Target

Function

Exhibits arylsulfatase activity and highly specific endoglucosamine-6-sulfatase activity. It can remove sulfate from the C-6 position of glucosamine within specific subregions of intact heparin. Diminishes HSPG (heparan sulfate proteoglycans) sulfation, inhibits signaling by heparin-dependent growth factors, diminishes proliferation, and facilitates apoptosis in response to exogenous stimulation.

Tissue specificity

Expressed at highest levels in testis, stomach, skeletal muscle, lung, kidney, pancreas, small intestine and colon. It is also detected in normal ovarian surface epithelial cells. Down-regulation seen in ovarian carcinoma cell lines, ovarian cancers, breast, pancreatic, renal and hepatocellular carcinoma cell lines.

Sequence similarities

Belongs to the sulfatase family.

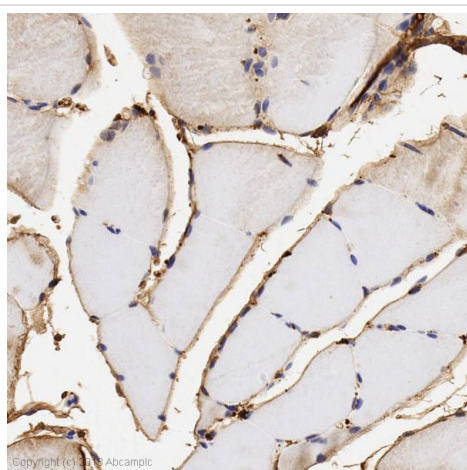
Post-translational modifications

The conversion to 3-oxoalanine (also known as C-formylglycine, FGly), of a serine or cysteine residue in prokaryotes and of a cysteine residue in eukaryotes, is critical for catalytic activity.

Cellular localization

Endoplasmic reticulum. Golgi apparatus > Golgi stack. Cell surface. Also localized on the cell surface.

Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Sulfatase 1/SULF1 antibody (ab32763)

IHC image of Sulfatase 1/SULF1 staining in Human skeletal muscle formalin-fixed paraffin embedded tissue section*, performed on a Leica Bond™ system.. 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 ab32763, 0.1 µg/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

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