# Anti-Sulfatase 1/SULF1 antibody ab32763

**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**: pH: 7.40  
Preservative: 0.02% Sodium azide  
Constituent: PBS

**Purity**: Immunogen affinity purified

**Clonality**: Polyclonal

**Isotype**: IgG

## Applications
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

Images
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.
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