

SUMF1 Antibody (C-Term) Blocking Peptide
Synthetic peptide
Catalog # BP9966a**Specification**

SUMF1 Antibody (C-Term) Blocking Peptide - Product InformationPrimary Accession [Q8NBK3](#)**SUMF1 Antibody (C-Term) Blocking Peptide - Additional Information****Gene ID** 285362**Other Names**

Sulfatase-modifying factor 1, 1899-, C-alpha-formylglycine-generating enzyme 1, SUMF1, FGE

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

SUMF1 Antibody (C-Term) Blocking Peptide - Protein Information**Name** SUMF1 {ECO:0000303|PubMed:12757706, ECO:0000312|HGNC:HGNC:20376}**Function**

Oxidase that catalyzes the conversion of cysteine to 3-oxoalanine on target proteins, using molecular oxygen and an unidentified reducing agent (PubMed:12757706, PubMed:15657036, PubMed:15907468, PubMed:25931126, PubMed:16368756, PubMed:21224894). 3-oxoalanine modification, which is also named formylglycine (fGly), occurs in the maturation of arylsulfatases and some alkaline phosphatases that use the hydrated form of 3-oxoalanine as a catalytic nucleophile (PubMed:12757706, PubMed:15657036, PubMed:15907468, PubMed:25931126, PubMed:16368756). Known substrates include GALNS, ARSA, STS and ARSE (PubMed:12757706, PubMed:15907468, PubMed:16368756).

PubMed:15657036).

Cellular Location

Endoplasmic reticulum lumen

Tissue Location

Ubiquitous. Highly expressed in kidney, pancreas and liver. Detected at lower levels in leukocytes, lung, placenta, small intestine, skeletal muscle and heart

SUMF1 Antibody (C-Term) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

SUMF1 Antibody (C-Term) Blocking Peptide - Images**SUMF1 Antibody (C-Term) Blocking Peptide - Background**

SUMF1 encodes an enzyme that catalyzes the hydrolysis of sulfate esters by oxidizing a cysteine residue in the substrate sulfatase to an active site 3-oxoalanine residue, which is also known as C-alpha-formylglycine.

SUMF1 Antibody (C-Term) Blocking Peptide - References

Oshikawa, M., et al. Mol. Vis. 15, 482-494 (2009) Fraldi, A., et al. Hum. Mol. Genet. 17(17):2610-2621(2008)Hara, K., et al. Neurology 71(8):547-551(2008)Yis, U., et al. Brain Dev. 30(5):374-377(2008)