

# SUMF2 Antibody (monoclonal) (M02)

Mouse monoclonal antibody raised against a partial recombinant SUMF2.

Catalog # AT4104a

## Product Information

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<b>Application</b>	WB, E
<b>Primary Accession</b>	<a href="#">Q8NBJ7</a>
<b>Other Accession</b>	<a href="#">NM_015411</a>
<b>Reactivity</b>	Human
<b>Host</b>	mouse
<b>Clonality</b>	monoclonal
<b>Isotype</b>	IgG2a Kappa
<b>Clone Names</b>	4B3
<b>Calculated MW</b>	33843

## Additional Information

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<b>Gene ID</b>	25870
<b>Other Names</b>	Sulfatase-modifying factor 2, C-alpha-formylglycine-generating enzyme 2, SUMF2
<b>Target/Specificity</b>	SUMF2 (NP_056226, 26 a.a. ~ 125 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
<b>Dilution</b>	WB~~1:500~1000 E~~N/A
<b>Format</b>	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
<b>Storage</b>	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
<b>Precautions</b>	SUMF2 Antibody (monoclonal) (M02) is for research use only and not for use in diagnostic or therapeutic procedures.

## Background

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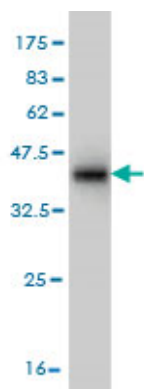
The catalytic sites of sulfatases are only active if they contain a unique amino acid, C-alpha-formylglycine (FGly). The FGly residue is posttranslationally generated from a cysteine by enzymes with FGly-generating activity. The gene described in this record is a member of the sulfatase-modifying factor family and encodes a protein with a DUF323 domain that localizes to the lumen of the endoplasmic reticulum. This protein has low levels of FGly-generating activity but can heterodimerize with another family member - a protein with high levels of FGly-generating activity. Alternate transcriptional splice variants, encoding different isoforms, have been characterized.

## References

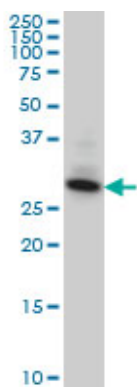
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SUMF2 interacts with interleukin-13 and inhibits interleukin-13 secretion in bronchial smooth muscle cells. Liang H, et al. J Cell Biochem, 2009 Dec 1. PMID 19739097.Paralog of the formylglycine-generating enzyme--retention in the endoplasmic reticulum by canonical and noncanonical signals. Gande SL, et al. FEBS J, 2008 Mar. PMID 18266766.Diversification of transcriptional modulation: large-scale identification and characterization of putative alternative promoters of human genes. Kimura K, et al. Genome Res, 2006 Jan. PMID 16344560.Signal sequence and keyword trap in silico for selection of full-length human cDNAs encoding secretion or membrane proteins from oligo-capped cDNA libraries. Otsuki T, et al. DNA Res, 2005. PMID 16303743.A human protein-protein interaction network: a resource for annotating the proteome. Stelzl U, et al. Cell, 2005 Sep 23. PMID 16169070.

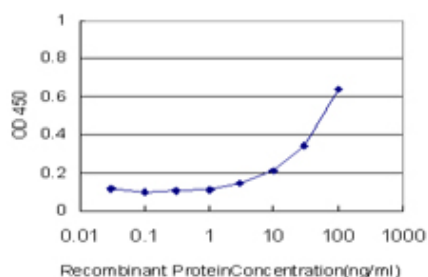
## Images



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (36.74 KDa) .



SUMF2 monoclonal antibody (M02), clone 4B3 Western Blot analysis of SUMF2 expression in A-431 (Cat # AT4104a )



Detection limit for recombinant GST tagged SUMF2 is approximately 3ng/ml as a capture antibody.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.