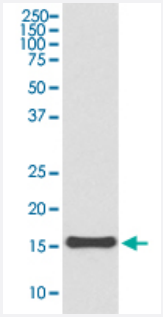
SUMO4 monoclonal antibody, clone IOO-19

Catalog # MAB20759 Size 100 uL

Applications



Western Blot (Cell lysate)

Western Blot analysis of 293T cell lysate with SUMO4 monoclonal antibody, clone IOO-19 (Cat # MAB20759).

Specification

Product Description	Rabbit monoclonal antibody raised against synthetic peptide of human SUMO4.
Immunogen	A synthetic peptide corresponding to human SUMO4.
Host	Rabbit
Theoretical MW (kDa)	10.685
Reactivity	Human
Form	Liquid
Purification	Affinity purification
Isotype	IgG
Recommend Usage	Flow Cytometry (1:50) Immunocytochemistry (1:50-1:200) Immunofluorescence (1:50-1:200) Immunoprecipitation (1:50) Western Blot (1:500-1:2000) The optimal working dilution should be determined by the end user.

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Storage Buffer	In PBS, 150 mM NaCl, pH 7.4 (50% glycerol, 0.02% sodium azide).
Storage Instruction	Store at -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and st ored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Immunofluorescence
- Immunocytochemistry
- Flow Cytometry
- Immunoprecipitation
- Western Blot (Cell lysate)

  Western Blot analysis of 293T cell lysate with SUMO4 monoclonal antibody, clone IOO-19 (Cat # MAB20759).

Gene Info — SUMO4

Entrez GeneID	387082
Protein Accession#	Q6EEV6
Gene Name	SUMO4
Gene Alias	IDDM5, SMT3H4, SUMO-4, dJ281H8.4
Gene Description	SMT3 suppressor of mif two 3 homolog 4 (S. cerevisiae)
Omim ID	600320 608829
Gene Ontology	Hyperlink
Gene Summary	This gene is a member of the SUMO gene family. This family of genes encode small ubiquitin-rela ted modifiers that are attached to proteins and control the target proteins' subcellular localization, stability, or activity. The protein described in this record is located in the cytoplasm and specificall y modifies IKBA, leading to negative regulation of NF-kappa-B-dependent transcription of the IL1 2B gene. A specific polymorphism in this SUMO gene, which leads to the M55V substitution, has been associated with type I diabetes. The RefSeq contains this polymorphism. [provided by RefS eq

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Other Designations	OTTHUMP00000017390|SMT3 suppressor of mif two 3 homolog 2|SMT3 suppressor of mif two 3 homolog 4|small ubiquitin-like modifier 4 protein|small ubiquitin-like protein 4

Publication Reference

- SUMO4 promotes SUMO deconjugation required for DNA double-strand-break repair.

  Alexander J. Garvin., Alexander J. Lanz., George E. Ronson., Matthew J. W. Mackintosh., Katarzyna Starowicz., Alexandra K. Walker., Yara Aghabi., Hannah MacKay., Ruth M. Densham., Jai S. Bhachoo., Aneika C. Leney., Joanna R. Morris.

  Molecular Cell 2025 Mar; 85(5):877.

  Application: Western blot, immunoprecipitation, Human, U2OS cell line (wild-type and SUMO4-edited)

Disease

- Addison Disease
- Arthritis
- Autoimmune Diseases
- Behcet Syndrome
- Coronary Disease
- Diabetes
- Diabetes Mellitus
- Diabetic Angiopathies
- Diabetic Nephropathies
- Diabetic Neuropathies
- Diabetic Retinopathy
- Genetic Predisposition to Disease
- Graves Disease
- Lupus Erythematosus
- Psoriasis
- Thyroiditis

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- Uveomeningoencephalitic Syndrome

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