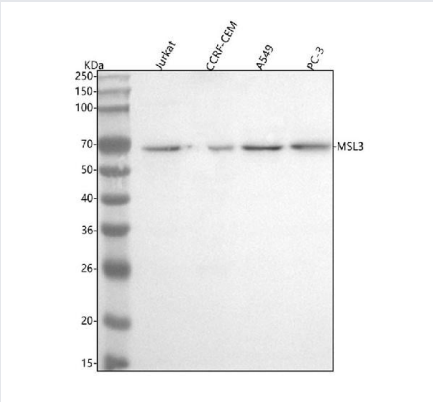
MSL3 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	MSL3, Polyclonal Antibody
Full Product Name	Anti-MSL3 Antibody Picoband
Product Gene Name	anti-MSL3 antibody
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Purity/Purification	Immunogen affinity purified.
Preparation and Storage	At -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months.Avoid repeated freezing and thawing.
Molecular Weight	59,824 Da
Chromosome Location	Chromosome: X; NC_000023.10 (11776278..11793872). Location: Xp22.3
OMIM	300609
3D Structure	ModBase 3D Structure for Q8N5Y2
Immunogen	E coli-derived human SLC7A7 recombinant protein (Position: M1-D498). Human SLC7A7 shares 90.8% and 91.6% amino acid (aa) sequence identity with mouse and rat SLC7A7, respectively.
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.
Product Categories/Family for anti-MSL3 antibody	Primary Antibodies
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Applications Tested/Suitable for anti-MSL3 antibody	ELISA (EIA), Western Blot (WB)
Application Notes for anti-MSL3 antibody	WB: 0.25-0.5ug/ml, Human ELISA: 0.1-0.5ug/ml
Related Product Information for anti-MSL3 antibody	The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Product References and Citations for anti-MSL3 antibody	1. Basilicata, M. F., Bruel, A.-L., Semplicio, G., Valsecchi, C. I. K., Aktas, T., Duffourd, Y., Rumpf, T., Morton, J., Bache, I., Szymanski, W. G., Gilissen, C., Vanakker, O., and 29 others. De novo mutations in MSL3 cause an X-linked syndrome marked by impaired histone H4 lysine 16 acetylation. Nature Genet. 50: 1442-1451, 2018. 2. Brunet, T., McWalter, K., Mayerhanser, K., Anbouba, G. M., Armstrong-Javors, A., Bader, I., Baugh, E., Begtrup, A., Bupp, C. P., Callewaert, B. L., Cereda, A., Cousin, M. A., and 49 others. Defining the genotypic and phenotypic spectrum of X-linked MSL3-related disorder. Genet. Med. 23: 384-395, 2021. 3. Prakash, S. K., Van den Veyver, I. B., Franco, B., Volta, M., Ballabio, A., Zoghbi, H. Y. Characterization of a novel chromo domain gene in Xp22.3 with homology to Drosophila msl-3. Genomics 59: 77-84, 1999.
Other Notes	Small volumes of anti-MSL3 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

Searchable Terms for MSL3 purchase	MBS1758557 is an antibody targeting MSL3. Also known as Anti-MSL3 Antibody Picoband. Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-MSL3 antibody
Figure 1. Western blot analysis of MSL3 using anti-MSL3 antibody (MBS1758557).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.Lane 1: human Jurkat whole cell lysates,Lane 2: human CCRF-CEM whole cell lysates,Lane 3: human A549 whole cell lysates,Lane 4: human PC-3 whole cell lysates.After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-MSL3 antigen affinity purified polyclonal antibody (#MBS1758557) at 0.5ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (#MBS176460) with Tanon 5200 system. A specific band was detected for MSL3 at approximately 70 kDa. The expected band size for MSL3 is at 60 kDa.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MSL3. It may not necessarily be applicable to this product.

NCBI GI #	212275945
NCBI GeneID	10943
NCBI Accession #	NP_523353.2
UniProt Primary Accession #	Q8N5Y2
UniProt Secondary Accession #	Q9UG70; Q9Y5Z8; A6NCU2; A6NHW8; A8K165; B4DUV8
UniProt Related Accession #	Q8N5Y2
GenBank Nucleotide #	NM_078629.3
NCBI Official Full Name	male-specific lethal 3 homolog isoform a
NCBI Official Synonym Full Names	male-specific lethal 3 homolog (Drosophila)
NCBI Official Symbol	MSL3
NCBI Official Synonym Symbols	MSL3L1
UniProt Protein Name	Male-specific lethal 3 homolog
UniProt Synonym Protein Names	Male-specific lethal-3 homolog 1; Male-specific lethal-3 protein-like 1
Protein Family	Male-specific lethal
UniProt Gene Name	MSL3
UniProt Synonym Gene Names	MSL3L1; MSL3-like 1

UniProt Entry Name	MS3L1_HUMAN
NCBI Protein Information	male-specific lethal 3 homolog; MSL3-like 1; male-specific lethal-3 protein-like 1
NCBI Summary for MSL3	This gene encodes a nuclear protein that is similar to the product of the Drosophila male-specific lethal-3 gene. The Drosophila protein plays a critical role in a dosage-compensation pathway, which equalizes X-linked gene expression in males and females. Thus, the human protein is thought to play a similar function in chromatin remodeling and transcriptional regulation, and it has been found as part of a complex that is responsible for histone H4 lysine-16 acetylation. This gene can undergo X inactivation. Alternative splicing results in multiple transcript variants. Related pseudogenes have been identified on chromosomes 2, 7 and 8. [provided by RefSeq, Jul 2010]
UniProt Comments for MSL3	MSL3L1: May be involved in chromatin remodeling and transcriptional regulation. May have a role in X inactivation. Component of the MSL complex which is responsible for the majority of histone H4 acetylation at 'Lys-16' which is implicated in the formation of higher-order chromatin structure. Specifically recognizes histone H4 monomethylated at 'Lys-20' (H4K20Me1) in a DNA-dependent manner and is proposed to be involved in chromosomal targeting of the MSL complex. 3 isoforms of the human protein are produced by alternative splicing. Protein type: Transcription factor Chromosomal Location of Human Ortholog: Xp22.3 Cellular Component: nucleoplasm; nucleus Molecular Function: DNA binding; transcription factor activity; methylated histone residue binding Biological Process: transcription from RNA polymerase II promoter; establishment and/or maintenance of chromatin architecture; regulation of transcription, DNA-dependent; multicellular organismal development
Research Articles on MSL3	**1.** MSL3 plays an important role in targeting the male specific lethal complex to chromatin in both humans and flies by binding to H4K20Me(1).
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