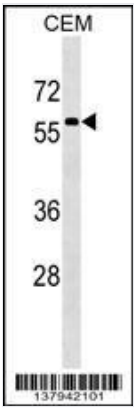
MSL3 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	MSL3, Polyclonal Antibody
Full Product Name	MSL3, NT (MSL3, MSL3L1, Male-specific lethal 3 homolog, Male-specific lethal-3 homolog 1, Male-specific lethal-3 protein-like 1) (PE)
Product Gene Name	anti-MSL3 antibody
Product Synonym Names	MSL3; MSL3L1; Male-specific lethal 3 homolog; Male-specific lethal-3 homolog 1; Male-specific lethal-3 protein-like 1
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with R-Phycoerythrin (PE).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: PE conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	59,824 Da
OMIM	300609
3D Structure	ModBase 3D Structure for Q8N5Y2
Immunogen	MSL3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 27-55 amino acids from the N-terminal region of human MSL3.
Conjugate	PE
Note	Preservative Free
Special Handling	Light sensitive
Product Categories/Family for anti-MSL3 antibody	Antibodies; Transcription Factors
Applications Tested/Suitable for anti-MSL3 antibody	Western Blot (WB), FLISA
Application Notes for anti-MSL3 antibody	WB: 1:100-500 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-MSL3 antibody	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.
Product References and Citations for anti-MSL3 antibody	Smith, E.R., et al. Mol. Cell. Biol. 25(21):9175-9188(2005). Marin, I., et al. Mol. Biol. Evol. 17(8):1240-1250(2000). Prakash, S.K., et al. Genomics 59(1):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	MBS6322548 is an antibody targeting MSL3. Also known as MSL3, NT (MSL3, MSL3L1, Male-specific lethal 3 homolog, Male-specific lethal-3 homolog 1, Male-specific lethal-3 protein-like 1) (PE). Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-MSL3 antibody
MSL3 Antibody (N-term) western blot analysis in CEM cell line lysates (35ug/lane).This demonstrates the MSL3 antibody detected the MSL3 protein (arrow).

ADDITIONAL DETAILS

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

NCBI GI #	300796021
NCBI GeneID	10943
NCBI Accession #	NP_001180199.1
UniProt Primary Accession #	Q8N5Y2
UniProt Secondary Accession #	Q9UG70; Q9Y5Z8; A6NCU2; A6NHW8; A8K165; B4DUV8; B7Z227
UniProt Related Accession #	Q8N5Y2
GenBank Nucleotide #	NM_001193270.2
NCBI Official Full Name	male-specific lethal 3 homolog isoform e
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

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
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