

MSTO1 Rabbit pAb

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Catalog # AP56874

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q9BUK6
Reactivity	Mouse
Predicted	Rat, Human, Rabbit
Host	Rabbit
Clonality	Polyclonal
Calculated MW	61835
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human MSTO1
Epitope Specificity	151-250/570
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Mitochondrion outer membrane.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Drosophila melanogaster is a proven and effective model for studying developmental and cellular processes common to higher eukaryotes. Approximately 13,600 genes have been elucidated from more than 120 megabases of euchromatin, and they are organized among the chromosomes 2, 3, 4, X and Y, with the Y chromosome being predominately heterochromatic (1). Drosophila genes can be categorized based on the type of protein for which they encode and are represented by six major classifications, which include intracellular signaling proteins, transmembrane proteins, RNA binding proteins, secreted factors, transcription regulators (basic helix-loop-helix, homeodomain containing, zinc finger containing, and chromatin associated) or other functional proteins (2). The misato gene encodes a protein that contains a mixture of peptide motifs found in alpha-, beta-, and gamma-tubulins, as well as a motif related to part of the myosin heavy chain proteins (3-5). Null mutations at the misato locus of Drosophila melanogaster are associated with irregular chromosomal segregation at cell division and result in larvae that have reduced levels of imaginal disk tissue, a reduction in brain size, and die during the larval stage of development (4,5).

Additional Information

Gene ID	55154
Other Names	Protein misato homolog 1, MSTO1
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500

Storage

Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

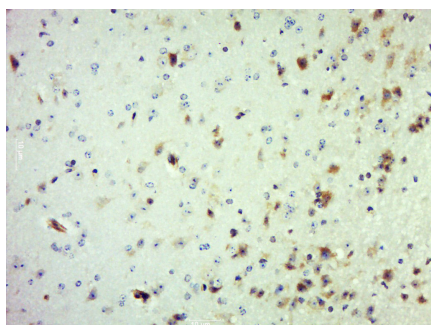
Protein Information

Name	MSTO1
Function	Involved in the regulation of mitochondrial distribution and morphology (PubMed: 17349998 , PubMed: 28544275 , PubMed: 28554942). Required for mitochondrial fusion and mitochondrial network formation (PubMed: 28544275 , PubMed: 28554942).
Cellular Location	Mitochondrion outer membrane. Cytoplasm
Tissue Location	Present in all cell lines tested (at protein level). Widely expressed.

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Images



Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (MSTO1) Polyclonal Antibody, Unconjugated (AP56874) at 1:500 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.

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