

Rabbit anti-Human MSTO1 Polyclonal Antibody | anti-MSTO1 antibody

Anti-MSTO1 Antibody, Rabbit Polyclonal

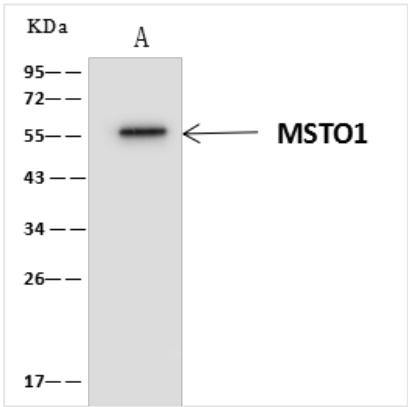
CATALOG # AAA255988	HOST Rabbit	REACTIVITY Human	APPLICATIONS Immunoprecipitation, Western Blot
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PRODUCT SYNONYMS

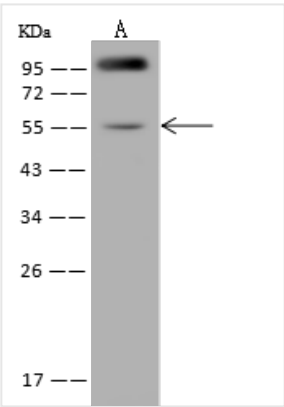
MSTO1; Polyclonal Antibody; Anti-MSTO1 Antibody; Rabbit Polyclonal; MSTO1 Antibody; Rabbit PAb; Antigen Affinity Purified; misato 1; mitochondrial distribution and morphology regulator; Anti-LST005 Antibody; Anti-MST Antibody; anti-MSTO1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Human MSTO1
Purity/Purification	Protein A & Antigen Affinity
Form/Format	Liquid; PBS, pH7.0 with 0.03% Proclin300
Applicable Applications for anti-MSTO1 antibody	IP (Immunoprecipitation), WB (Western Blot)
Immunogen	E Coli-derived Human MSTO1 fragment
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with E Coli-derived Human MSTO1 fragment, and purified by antigen affinity chromatography.
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Avoid repeated freeze-thaw cycles.



IP (Immunoprecipitation)
MSTO1 was immunoprecipitated using: Lane A: 0.5 mg H1299 Whole Cell Lysate, 1 uL anti-MSTO1 rabbit polyclonal antibody and 60 ug of Immnomagnetic beads Protein A/G. Primary antibody: Anti-MSTO1 rabbit polyclonal antibody, at 1:500 dilution. Secondary antibody: Clean-Blot IP Detection Reagent (HRP) at 1:1000 dilution. Developed using the ECL technique. Performed under reducing conditions. Predicted band size: 62 kDa. Observed band size: 55 kDa.



WB (Western Blot)
Anti-MSTO1 rabbit polyclonal antibody at 1:500 dilution. Lane A: H1299 Whole Cell Lysate. Lysates/proteins at 30 ug per lane. Secondary: Goat Anti-Rabbit IgG (H+L)/HRP at 1/10000 dilution. Developed using the ECL technique. Performed under reducing conditions. Predicted band size: 62 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-MSTO1 antibody	MSTO1 (Misato Mitochondrial Distribution And Morphology Regulator 1) is a Protein Coding gene. The MSTO1 gene, located on 1q22, is conserved in chimpanzee, Rhesus monkey, dog, cow, mouse, and rat, etc. MSTO1 belongs to the misato family. 7 alternatively spliced human isoforms have been reported. MSTO1 encodes a cytosolic mitochondrial fusion protein, misato homolog 1 or MSTO1. Human MSTO1 is involved in the regulation of mitochondrial distribution and morphology and its unregulated expression leads to a mitochondrial disorder. MSTO1 mutations have been shown to cause clinical manifestations suggestive of mitochondrial dysfunction, such as muscle weakness, short stature, motor developmental delay, and cerebellar atrophy. Both autosomal dominant and recessive modes of inheritance have been suggested.
References	Li K, et al. (2020) Whole-exome sequencing identifies rare compound heterozygous mutations in the msto1 gene associated with cerebellar ataxia and myopathy. Eur J Med Genet 63 (1): 103623. Iwama K, et al. (2018) Novel recessive mutations in msto1 cause cerebellar atrophy with pigmentary retinopathy. J Hum Genet 63 (3): 263-270. Donkervoort S, et al. (2019) Msto1 mutations cause mtdna depletion, manifesting as muscular dystrophy with cerebellar involvement. Acta Neuropathol 138 (6): 1013-1031.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.