SunLong Biotech Co.,LTD
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Mouse Anti-BHLHA15 antibody

SLM-34219M

Product Name	BHLHA15
Chinese Name	BHLHA15 单克隆抗体
Alias	BHA15_HUMAN; Class A basic helix-loop-helix protein 15; bHLHa15; Class B basic helix-loop-helix protein 8 (bHLHb8); Muscle, intestine and stomach expression 1 (MIST-1); BHLHB8; MIST1; basic helix-loop-helix family member a15;
Immunogen Species	Mouse
Clonality	Monoclonal
React Species	Human, (predicted: Mouse, Rat, Pig,)
Applications	WB=1:500-2000 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Theoretical molecular weight	21kDa
Detection molecular weight	27 kDa
Cellular localization	The nucleus
Form	Liquid
Concentration	1mg/ml
immunogen	Recombinded human BHLHA15 protein: 1-189/189
Lsotype	IgG2a
Purification	affinity purified by Protein A
Buffer Solution	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.
Storage	Shipped at 4°C. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Attention	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
PubMed	PubMed
Product Detail	Enables sequence-specific double-stranded DNA binding activity. Predicted to be

involved in several processes, including cellular response to glucose starvation; endoplasmic reticulum unfolded protein response; and negative regulation of myotube differentiation. Predicted to act upstream of or within several processes, including glucose homeostasis; intracellular distribution of mitochondria; and mitochondrial calcium ion transmembrane transport. Predicted to be part of chromatin. Predicted to be active in nucleus. [provided by Alliance of Genome Resources, Apr 2022]

Function:
Plays a role in controlling the transcriptional activity of MYOD1, ensuring that expanding myoblast populations remain undifferentiated. Repression may occur through muscle-specific E-box occupancy by homodimers. May also negatively regulate bHLH-mediated transcription through an N-terminal repressor domain. Serves as a key regulator of acinar cell function, stability, and identity. Also required for normal organelle localization in exocrine cells and for mitochondrial calcium ion transport. May function as a unique regulator of gene expression in several different embryonic and postnatal cell lineages. Binds to the E-box consensus sequence 5'-CANNTG-3' (By similarity).

Subcellular Location:
Nucleus.

Tissue Specificity:
Expressed in brain, liver, spleen and skeletal muscle.

SWISS:
Q7RTS1

Gene ID:
168620

Database links:

Entrez Gene: 168620 Human

SwissProt: Q7RTS1 Human

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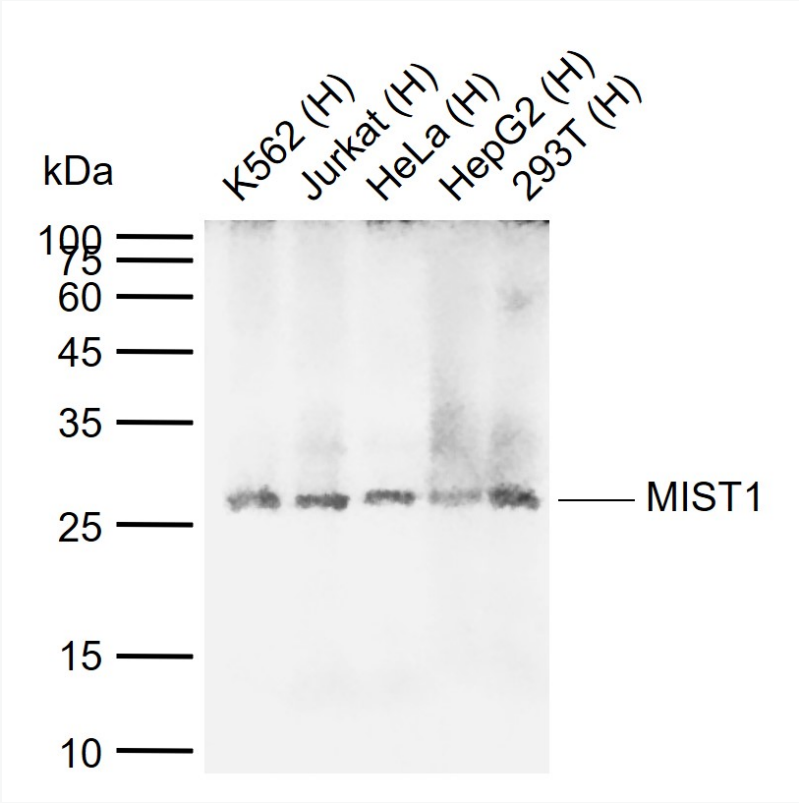
Product Picture



Sample:

Lane 1: Human K562 cell lysates

Lane 2: Human Jurkat cell lysates

Lane 3: Human HeLa cell lysates

Lane 4: Human HepG2 cell lysates

Lane 5: Human 293T cell lysates

Primary: Anti-MIST1 (SLM-34219M) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Mouse IgG at 1/20000 dilution

Predicted band size: 21 kDa

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Observed band size: 27 kDa