

BHLHA15 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP10649B

Product Information

Application	WB, FC, E
Primary Accession	Q7RTS1
Other Accession	NP_803238.1
Reactivity	Human, Mouse
Predicted	Rat, Bovine, Canine, Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB28303
Calculated MW	20818
Antigen Region	160-189

Additional Information

Gene ID	168620
Other Names	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, BHLHA15, BHLHB8, MIST1
Target/Specificity	This BHLHA15 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 160-189 amino acids from the C-terminal region of human BHLHA15.
Dilution	WB~~1:1000 FC~~1:10~50 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	BHLHA15 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	BHLHA15
Synonyms	BHLHB8, MIST1

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).
Cellular Location	Nucleus.
Tissue Location	Expressed in brain, liver, spleen and skeletal muscle.

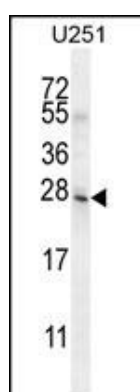
Background

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).

References

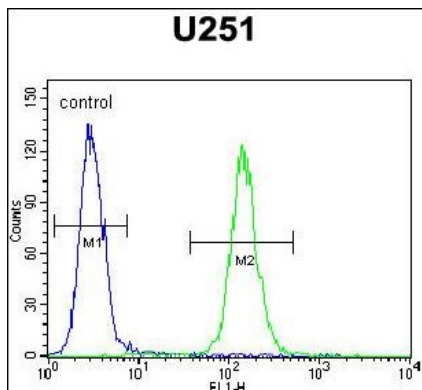
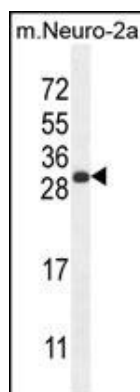
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Images



BHLHA15 Antibody (C-term) (Cat. #AP10649b) western blot analysis in U251 cell line lysates (35ug/lane). This demonstrates the BHLHA15 antibody detected the BHLHA15 protein (arrow).

BHLHA15 Antibody (C-term) (Cat. #AP10649b) western blot analysis in mouse Neuro-2a cell line lysates (35ug/lane). This demonstrates the BHLHA15 antibody detected the BHLHA15 protein (arrow).



BHLHA15 Antibody (C-term) (Cat. #AP10649b) flow cytometric analysis of U251 cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

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