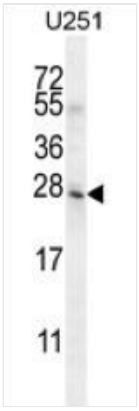
BHLHA15 Antibody – Rabbit Polyclonal

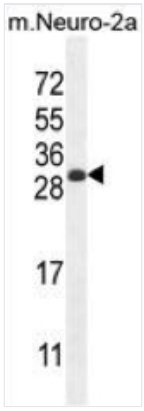
PRODUCT OVERVIEW

Product Name	BHLHA15, Polyclonal Antibody
Full Product Name	BHLHA15, CT (BHLHA15, BHLHB8, MIST1, Class A basic helix-loop-helix protein 15, Class B basic helix-loop-helix protein 8, Muscle, intestine and stomach expression 1) (Biotin)
Product Gene Name	anti-BHLHA15 antibody
Product Synonym Names	BHLHA15; BHLHB8; MIST1; Class A basic helix-loop-helix protein 15; Class B basic helix-loop-helix protein 8; Muscle; intestine and stomach expression 1
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Biotin.
Purity/Purification	Purified by Protein A and Peptide Affinity Chromatography.
Specificity	Recognizes human BHLHA15. Species Crossreactivity: mouse
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	20,818 Da
OMIM	608606
3D Structure	ModBase 3D Structure for Q7RTS1
Immunogen	KLH-conjugated synthetic peptide mapping to a fragment of residues within amino acids 160-189 in the C-terminal region of human BHLHA15, UniProt Accession #Q7RTS1.
Conjugate	Biotin
Note	Preservative Free
Product Categories/Family for anti-BHLHA15 antibody	Antibodies; Transcription Factors
Applications Tested/Suitable for anti-BHLHA15 antibody	Flow Cytometry (FC/FACS), ELISA (EIA), Western Blot (WB)
Application Notes for anti-BHLHA15 antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-BHLHA15 antibody	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).
Product References and Citations for anti-BHLHA15 antibody	1. Smits, K.M., et al. Ann Epidemiol 20(5):401-404(2010). 2. Tian, X., et al. Mol. Cell. Biol. 30(5):1269-1284(2010). 3. Stevens, J.D., et al. Differentiation 76(9):1006-1022(2008). 4. Zhao, Y., et al. Mol. Endocrinol. 20(9):2187-2198(2006). 5. McLellan, A.S., et al. Mech. Dev. 119 SUPPL 1, S285-S291 (2002).

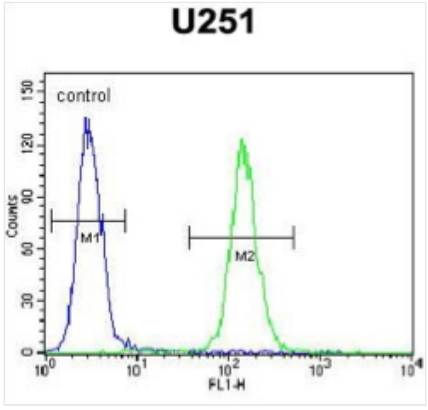
Other Notes	Small volumes of anti-BHLHA15 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for BHLHA15 purchase	MBS6278342 is an antibody targeting BHLHA15. Also known as BHLHA15, CT (BHLHA15, BHLHB8, MIST1, Class A basic helix-loop-helix protein 15, Class B basic helix-loop-helix protein 8, Muscle, intestine and stomach expression 1) (Biotin). Reactive in Human, Mouse. Host: Rabbit.



Western Blot (WB) of anti-BHLHA15 antibody
Western Blot analysis in U251 cell line lysates (35ug/lane) usingMBS6012885. This demonstrates that MBS6012885 detected the BHLHA15 protein (arrow).



Western Blot (WB) of anti-BHLHA15 antibody
Western Blot analysis in mouse Neuro-2a cell line lysates (35ug/lane) usingMBS6012885. This demonstrates that MBS6012885 detected the BHLHA15 protein (arrow).



Flow Cytometry (FC/FACS) of anti-BHLHA15 antibody
Flow Cytometry analysis of U251 cells using MBS6012885 (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for BHLHA15. It may not necessarily be applicable to this product.

NCBI GI #	29126247
NCBI GeneID	168620
NCBI Accession #	NP_803238.1
UniProt Primary Accession #	Q7RTS1
UniProt Secondary Accession #	Q14DE4; A4D271
UniProt Related Accession #	Q7RTS1
GenBank Nucleotide #	NM_177455.3
NCBI Official Full Name	class A basic helix-loop-helix protein 15
NCBI Official Synonym Full Names	basic helix-loop-helix family, member a15

NCBI Official Symbol	BHLHA15
NCBI Official Synonym Symbols	MIST1; BHLHB8
UniProt Protein Name	Class A basic helix-loop-helix protein 15
UniProt Synonym Protein Names	Class B basic helix-loop-helix protein 8; bHLHb8; Muscle, intestine and stomach expression 1; MIST-1
Protein Family	Class A basic helix-loop-helix protein
UniProt Gene Name	BHLHA15
UniProt Synonym Gene Names	BHLHB8; MIST1; bHLHa15; bHLHb8; MIST-1
UniProt Entry Name	BHA15_HUMAN
NCBI Protein Information	class A basic helix-loop-helix protein 15; MIST-1; class II bHLH protein MIST1; class B basic helix-loop-helix protein 8; muscle, intestine and stomach expression 1; basic helix-loop-helix domain containing, class B, 8
UniProt Comments for BHLHA15	MIST1: 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'. Chromosomal Location of Human Ortholog: 7q21.3 Cellular Component: nucleus Molecular Function: protein homodimerization activity Biological Process: G-protein coupled receptor protein signaling pathway; cellular response to glucose starvation; transcription, DNA-dependent; cell-cell signaling; unfolded protein response; cell maturation; intracellular distribution of mitochondria; calcium-mediated signaling; positive regulation of transcription from RNA polymerase II promoter; glucose homeostasis; Golgi organization and biogenesis; mitochondrial calcium ion transport
Research Articles on BHLHA15	**1.** noted a higher mean value of microvascular density in CK5/6 and Ep-CAM-immunopositive tumors, carcinomas with aberrant CK8/18 expression, and carcinomas with no or strong expression of MMP-2 in stromal fibroblast-like cells
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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