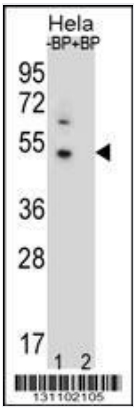
DNAJB6 Antibody – Rabbit Polyclonal

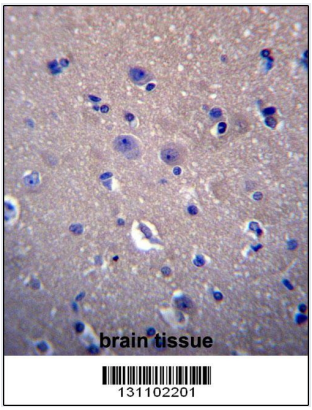
PRODUCT OVERVIEW

Product Name	DNAJB6, Polyclonal Antibody
Full Product Name	DNAJB6, ID (DNAJB6, HSJ2, MRJ, MSJ1, DnaJ homolog subfamily B member 6, HHDJ1, Heat shock protein J2, MSJ-1) (APC)
Product Gene Name	anti-DNAJB6 antibody
Product Synonym Names	DNAJB6; HSJ2; MRJ; MSJ1; DnaJ homolog subfamily B member 6; HHDJ1; Heat shock protein J2; MSJ-1
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Allophycocyanin (APC).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: APC conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	30,369 Da
OMIM	603511
3D Structure	ModBase 3D Structure for O75190
Immunogen	DNAJB6 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 217-247 amino acids from the Central region of human DNAJB6.
Conjugate	APC
Note	Preservative Free
Special Handling	Light sensitive
Product Categories/Family for anti-DNAJB6 antibody	Antibodies; Heat Shock Proteins
Applications Tested/Suitable for anti-DNAJB6 antibody	Flow Cytometry (FC/FACS), FLISA, Immunohistochemistry (IHC), Western Blot (WB)
Application Notes for anti-DNAJB6 antibody	FC/FACS: 1:10-50 FLISA: 1:1,000 IHC: 1:10-50 WB: 1:100-500 Applications are based on unconjugated antibody.
Related Product Information for anti-DNAJB6 antibody	This gene encodes a member of the DNAJ protein family. DNAJ family members are characterized by a highly conserved amino acid stretch called the 'J-domain' and function as one of the two major classes of molecular chaperones involved in a wide range of cellular events, such as protein folding and oligomeric protein complex assembly. This family member may also play a role in polyglutamine aggregation in specific neurons. Alternative splicing of this gene results in multiple transcript variants; however, not all variants have been fully described.

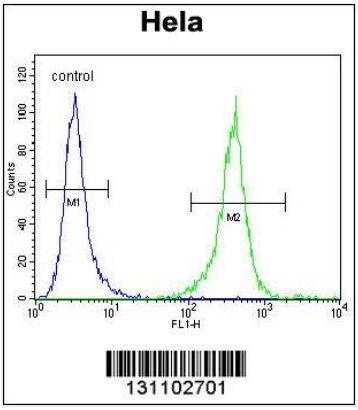
Product References and Citations for anti-DNAJB6 antibody	Mitra, A., et al. J. Biol. Chem. 285(32):24686-24694(2010). Edo De Bock, C., et al. Int. J. Oncol. 36(5):1155-1163(2010). Hageman, J., et al. Mol. Cell 37(3):355-369(2010). Lowe, J.K., et al. PLoS Genet. 5 (2), E1000365 (2009): Dey, S., et al. Mol. Cell. Biochem. 322 (1-2), 137-142 (2009).
Other Notes	Small volumes of anti-DNAJB6 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 DNAJB6 purchase	MBS6292697 is an antibody targeting DNAJB6. Also known as DNAJB6, ID (DNAJB6, HSJ2, MRJ, MSJ1, DnaJ homolog subfamily B member 6, HHDJ1, Heat shock protein J2, MSJ-1) (APC). Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-DNAJB6 antibody
Western blot analysis of DNAJB6 Antibody (Center) Pab pre-incubated without(lane 1) and with(lane 2) blocking peptide in Hela cell line lysate. DNAJB6 Antibody (Center) (arrow) was detected using the purified Pab.



Immunohistochemistry (IHC) of anti-DNAJB6 antibody
DNAJB6 Antibody (Center) immunohistochemistry analysis in formalin fixed and paraffin embedded human brain tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of DNAJB6 Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.



Flow Cytometry (FC/FACS) of anti-DNAJB6 antibody
DNAJB6 Antibody (Center) flow cytometric analysis of Hela cells (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 DNAJB6. It may not necessarily be applicable to this product.

NCBI GI #	17388799
NCBI GeneID	10049
NCBI Accession #	NP_490647.1
NCBI Related Accession #	NP_005485.1
UniProt Primary Accession #	O75190
UniProt Secondary Accession #	O95806; Q53EN8; Q59EF2; Q6FIC8; Q75MA2; Q9UIK6; A4D232; A8K7D8; A8KAG0; B4DN73; E9PCZ2

UniProt Related Accession #	O75190
GenBank Nucleotide #	NM_058246.3
NCBI Official Full Name	dnaJ homolog subfamily B member 6 isoform a
NCBI Official Synonym Full Names	DnaJ heat shock protein family (Hsp40) member B6
NCBI Official Symbol	DNAJB6
NCBI Official Synonym Symbols	DJ4; MRJ; DnaJ; HSJ2; HHDJ1; HSJ-2; MSJ-1; LGMD1D; LGMD1E
UniProt Protein Name	DnaJ homolog subfamily B member 6
UniProt Synonym Protein Names	HHDJ1; Heat shock protein J2; HSJ-2; MRJ; MSJ-1
Protein Family	DnaJ homolog subfamily
UniProt Gene Name	DNAJB6
UniProt Synonym Gene Names	HSJ2; MRJ; MSJ1; HSJ-2
UniProt Entry Name	DNJB6_HUMAN
NCBI Protein Information	dnaJ homolog subfamily B member 6
UniProt Comments for DNAJB6	DNAJB6: Plays an indispensable role in the organization of KRT8/KRT18 filaments. Acts as an endogenous molecular chaperone for neuronal proteins including huntingtin. Suppresses aggregation and toxicity of polyglutamine-containing, aggregation-prone proteins. Isoform B but not isoform A inhibits huntingtin aggregation. Has a stimulatory effect on the ATPase activity of HSP70 in a dose-dependent and time-dependent manner and hence acts as a co-chaperone of HSP70. Also reduces cellular toxicity and caspase-3 activity. Defects in DNAJB6 are the cause of limb-girdle muscular dystrophy type 1E (LGMD1E). An autosomal dominant myopathy characterized by adult onset of proximal muscle weakness, beginning in the hip girdle region and later progressing to the shoulder girdle region. There is evidence that LGMD1E is caused by dysfunction of isoform B (PubMed:22366786). 3 isoforms of the human protein are produced by alternative splicing. Protein type: Chaperone Chromosomal Location of Human Ortholog: 7q36.3 Cellular Component: nucleoplasm; membrane; perinuclear region of cytoplasm; cytoplasm; nucleus; cytosol; Z disc Molecular Function: ATPase activator activity; protein binding; heat shock protein binding; chaperone binding; unfolded protein binding Biological Process: protein folding; positive regulation of ATPase activity; intermediate filament organization; negative regulation of caspase activity Disease: Muscular Dystrophy, Limb-girdle, Type 1e
Research Articles on DNAJB6	**1.** This study showed that Complete loss of the DNAJB6 G/F domain and novel missense mutations cause distal-onset DNAJB6 myopathy.
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