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DNAJB6 Rabbit mAb

Catalog # AP75366

Product Information

Application	WB, IHC-P, FC, IP
Primary Accession	O75190
Reactivity	Rat, Human, Mouse
Host	Rabbit
Clonality	Monoclonal Antibody
Isotype	IgG
Conjugate	Unconjugated
Purification	Affinity Purified
Calculated MW	36087

Additional Information

Gene ID	10049
Other Names	DNAJB6
Dilution	WB~~1:500-1:1000 IHC-P~~N/A FC~~1:200-1:500 IP~~1:100-1:200
Format	Liquid in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% sodium azide and 0.05% BSA.
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

Protein Information

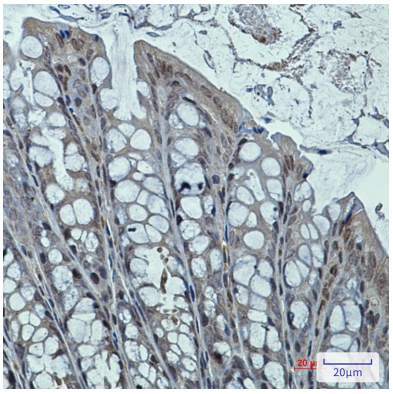
Name	DNAJB6
Synonyms	HSJ2, MRJ, MSJ1
Function	Has a stimulatory effect on the ATPase activity of HSP70 in a dose-dependent and time-dependent manner and hence acts as a co-chaperone of HSP70 (PubMed:10954706, PubMed:28233300). Plays an indispensable role in the organization of KRT8/KRT18 filaments (PubMed:10954706). Acts as an endogenous molecular chaperone for neuronal proteins including huntingtin (PubMed:11896048, PubMed:22366786). Suppresses aggregation and toxicity of polyglutamine-containing, aggregation-prone proteins (PubMed:20159555, PubMed:22366786). Also reduces cellular toxicity and caspase-3 activity (PubMed:11896048).
Cellular Location	Cytoplasm, perinuclear region. Nucleus Cytoplasm, myofibril, sarcomere, Z line

Tissue Location	Widely expressed. Highest levels in testis and brain, and lower levels in heart, spleen, intestine, ovary, placenta, lung, kidney, pancreas, thymus, prostate, skeletal muscle, liver and leukocytes. In testis, expressed in germ cells in the earlier stages of differentiation pathway as well as in spermatids. In brain, expressed at a higher level in hippocampus and thalamus and a lower level in amygdala, substantia nigra, corpus callosum and caudate nucleus

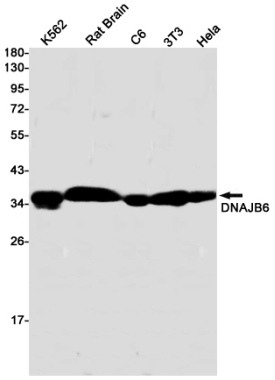
Background

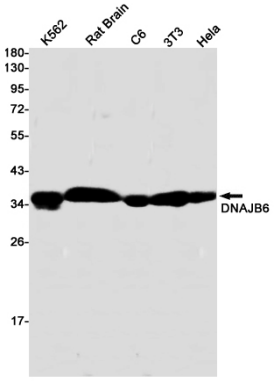
DNAJB6, belongs to the heat shock protein 40 (HSP40) family, a noncanonical member of the DNAJ-chaperone family, is mainly expressed in neurons. It plays an important role in recovery from misfolded protein aggregates (PMID: 27276715). As seen by the western blot stained for DNAJB6, there are 2 splice forms of the protein resulting in a longer isoform (38 kDa) and a shorter one (27 kDa). DNAJB6 (27 kDa) isoform but not DNAJB6 (38 kDa) isoform is effective with suppressing cytoplasmic protein aggregation (PMID:20159555).

Images

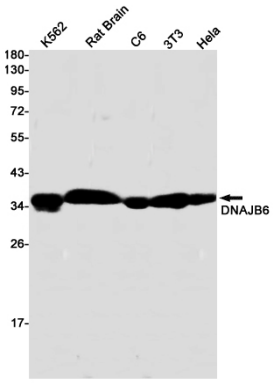


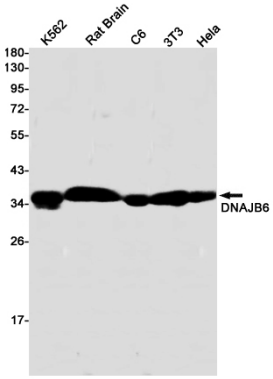
Immunohistochemistry analysis of paraffin-embedded mouse colon using DNAJB6 antibody.High-pressure and temperature Sodium Citrate pH 6.0 was used for antigen retrieval.





Western blot analysis of DNAJB6 in K562, rat Brain, C6, 3T3, Hela lysates using DNAJB6 antibody.





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