

DNAJB14 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP55541

Product Information

Application	WB, IHC-P, IHC-F, IF, ICC, E
Primary Accession	Q8TBM8
Reactivity	Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	42516

Additional Information

Gene ID	79982
Other Names	DnaJ homolog subfamily B member 14 {ECO:0000312 HGNC:HGNC:25881}, DNAJB14 (HGNC:25881)
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,ICC=1:100-500,IF=1:100-500,ELISA=1:5000-10000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	DNAJB14 (HGNC:25881)
Function	Acts as a co-chaperone with HSPA8/Hsc70; required to promote protein folding and trafficking, prevent aggregation of client proteins, and promote unfolded proteins to endoplasmic reticulum- associated degradation (ERAD) pathway (PubMed: 24732912). Acts by determining HSPA8/Hsc70's ATPase and polypeptide-binding activities (PubMed: 24732912). Can also act independently of HSPA8/Hsc70: together with DNAJB12, acts as a chaperone that promotes maturation of potassium channels KCND2 and KCNH2 by stabilizing nascent channel subunits and assembling them into tetramers (PubMed: 27916661). While stabilization of nascent channel proteins is dependent on HSPA8/Hsc70, the process of oligomerization of channel subunits is independent of HSPA8/Hsc70 (PubMed: 27916661). When overexpressed, forms membranous structures together with DNAJB12 and HSPA8/Hsc70 within the nucleus; the role of these structures, named DJANGOs, is still unclear (PubMed: 24732912).
Cellular Location	Endoplasmic reticulum membrane; Single-pass membrane protein. Nucleus membrane; Single- pass membrane protein. Note=Localizes to the

endoplasmic reticulum membrane (PubMed:23018488, PubMed:24732912, PubMed:27916661) When overexpressed, forms membranous structures in the nucleus (PubMed:24732912).

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