



CI072 rabbit pAb

Catalog No	YP-Ab-08609
Isotype	IgG
Reactivity	Human; Mouse; Rat
Applications	WB
Gene Name	C9orf72
Immunogen	Synthesized peptide derived from human CI072 AA range: 188-238
Specificity	This antibody detects endogenous levels of CI072 at Human/Mouse/Rat
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit, IgG
Purification	The antibody was affinity-purified from rabbit serum by affinity-chromatography using specific immunogen.
Dilution	WB 1:500-2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	ALSFTD; C9orf72; chromosome 9 open reading frame 72; CI72_HUMAN; FTDALS; MGC2398; Protein C9orf72; RP11-27J8.2; Uncharacterized protein C9orf72; CI072
Observed Band	
Calculated Molecular Weight	
Cell Pathway	Nucleus . Cytoplasm . Cytoplasm, P-body . Cytoplasm, Stress granule . Endosome . Lysosome . Cytoplasmic vesicle, autophagosome . Secreted . Cell projection, axon . Cell projection, growth cone . Perikaryon . Detected in the cytoplasm of neurons from brain tissue (PubMed:21944778). Detected in the nucleus in fibroblasts (PubMed:21944779). During corticogenesis, transitions from being predominantly cytoplasmic to a more even nucleocytoplasmic distribution (By similarity). .; [Isoform 1]: Perikaryon . Cell projection, dendrite . Cell junction, synapse, presynapse . Cell junction, synapse, postsynapse . Expressed diffusely throughout the cytoplasm and dendritic processes of cerebellar Purkinje cells. Also expressed diffusely throughout the cytoplasm of spinal motor neurons. .; [Isoform 2]: Nuc
Tissue Specificity	Both isoforms are widely expressed, including kidney, lung, liver, heart, testis and several brain regions, such as cerebellum. Also expressed in the frontal cortex and in lymphoblasts (at protein level).



Function

Background

The protein encoded by this gene plays an important role in the regulation of endosomal trafficking, and has been shown to interact with Rab proteins that are involved in autophagy and endocytic transport. Expansion of a GGGGCC repeat from 2-22 copies to 700-1600 copies in the intronic sequence between alternate 5' exons in transcripts from this gene is associated with 9p-linked ALS (amyotrophic lateral sclerosis) and FTD (frontotemporal dementia) (PMID: 21944778, 21944779). Studies suggest that hexanucleotide expansions could result in the selective stabilization of repeat-containing pre-mRNA, and the accumulation of insoluble dipeptide repeat protein aggregates that could be pathogenic in FTD-ALS patients (PMID: 23393093). Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Jul 2016],

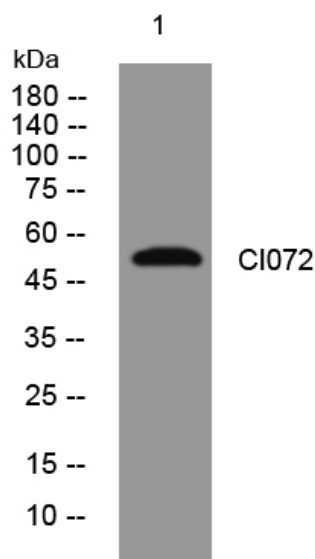
matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images



Western blot analysis of lysates from THP-1 cells, primary antibody was diluted at 1:1000, 4° over night