

TDRD3 Rabbit pAb

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Catalog # AP54621

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	Q9H7E2
Reactivity	Rat, Human, Mouse
Predicted	Pig, Rabbit, Chicken, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	73185
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human TDRD3
Epitope Specificity	161-250/651
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Cytoplasm. Nucleus. Predominantly cytoplasmic. Associated with actively translating polyribosomes and with mRNA stress granules.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Tudor domain containing 3 is a 651 amino acid protein that localizes to both the nucleus and the cytoplasm and contains one UBA domain and one tudor domain. Expressed in lung, brain, heart, liver, placenta, kidney, pancreas and skeletal muscle, TDRD3 exists as a component of mRNA stress granules and is thought to play a role in the translation of target mRNAs, as well as in the assembly and disassembly of stress granules. Multiple isoforms of TDRD3 exist due to alternative splicing events. The gene encoding TDRD3 maps to human chromosome 13, which houses over 400 genes, such as BRCA2 and RB1, and comprises nearly 4% of the human genome. Trisomy 13, also known as Patau syndrome, is deadly and the few who survive past one year suffer from permanent neurologic defects, difficulty eating and vulnerability to serious respiratory infections.

Additional Information

Gene ID	81550
Other Names	Tudor domain-containing protein 3, TDRD3
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
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.

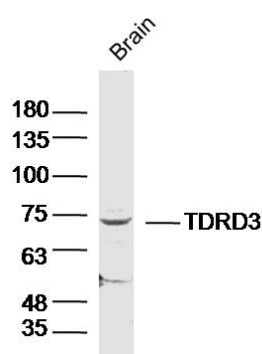
Protein Information

Name	TDRD3
Function	Scaffolding protein that specifically recognizes and binds dimethylarginine-containing proteins (PubMed: 15955813). Plays a role in the regulation of translation of target mRNAs by binding Arg/Gly-rich motifs (GAR) in dimethylarginine-containing proteins. In nucleus, acts as a coactivator: recognizes and binds asymmetric dimethylation on the core histone tails associated with transcriptional activation (H3R17me2a and H4R3me2a) and recruits proteins at these arginine- methylated loci (PubMed: 21172665). In cytoplasm, acts as an antiviral factor that participates in the assembly of stress granules together with G3BP1 (PubMed: 35085371).
Cellular Location	Cytoplasm. Nucleus. Note=Predominantly cytoplasmic Associated with actively translating polyribosomes. Component of stress granules (PubMed:18664458, PubMed:35085371)
Tissue Location	Detected in heart, brain, placenta, lung, liver, skeletal muscle, kidney and pancreas.

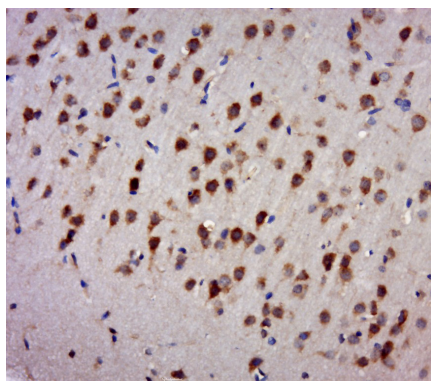
Background

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Images



Sample: Brain (Mouse) Lysate at 40 ug
Primary: Anti- TDRD3 (AP54621) at 1/300 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 73kD
Observed band size: 73kD



Paraformaldehyde-fixed, paraffin embedded (rat brain tissue); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (TDRD3) Polyclonal Antibody, Unconjugated (AP54621) at 1:400 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.