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DHX37 Rabbit pAb

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Catalog # AP55523

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	Q8IY37
Reactivity	Human, Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	129545
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human DHX37
Epitope Specificity	51-150/1157
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the DEAD box helicase family. DEAH subfamily.Contains 1 helicase ATP-binding domain.Contains 1 helicase C-terminal domain.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	This gene encodes a DEAD box protein. DEAD box proteins, characterized by the conserved motif Asp-Glu-Ala-Asp (DEAD), are putative RNA helicases. They are implicated in a number of cellular processes involving alteration of RNA secondary structure such as translation initiation, nuclear and mitochondrial splicing, and ribosome and spliceosome assembly. Based on their distribution patterns, some members of this family are believed to be involved in embryogenesis, spermatogenesis, and cellular growth and division. [provided by RefSeq, Jul 2008]

Additional Information

Gene ID	57647
Other Names	Probable ATP-dependent RNA helicase DHX37, 3.6.4.13, DEAH box protein 37, DHX37 (HGNC:17210), DDX37, KIAA1517
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	DHX37 (HGNC:17210)
Synonyms	DDX37, KIAA1517
Function	ATP-binding RNA helicase that plays a role in maturation of the small ribosomal subunit in ribosome biogenesis (PubMed:30582406). Required for the release of the U3 snoRNP from pre-ribosomal particles (PubMed:30582406). Part of the small subunit (SSU) processome, first precursor of the small eukaryotic ribosomal subunit. During the assembly of the SSU processome in the nucleolus, many ribosome biogenesis factors, an RNA chaperone and ribosomal proteins associate with the nascent pre-rRNA and work in concert to generate RNA folding, modifications, rearrangements and cleavage as well as targeted degradation of pre-ribosomal RNA by the RNA exosome (PubMed:34516797). Plays a role in early testis development (PubMed:31287541, PubMed:31337883). Probably also plays a role in brain development (PubMed:31256877).
Cellular Location	Nucleus, nucleolus. Cytoplasm. Nucleus membrane
Tissue Location	Expressed in the fallopian tube, ovary, uterus and testis. Also expressed in the brain.

Background

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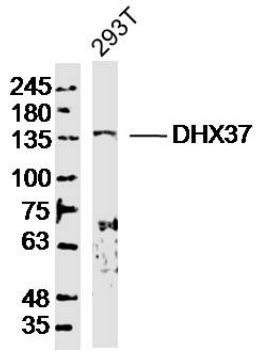
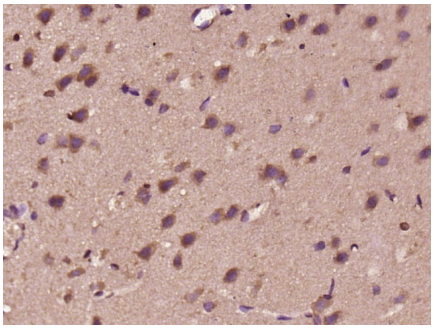
Images



Sample: 293T Cell (Human) Lysate at 40 ug
Primary: Anti-DHX37(AP55523)at 1/300 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 129kD
Observed band size: 135kD



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 (DHX37) Polyclonal Antibody, Unconjugated (AP55523) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.