

TDRD7 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP10982b

Product Information

Application	WB, IHC-P, FC, E
Primary Accession	Q8NHU6
Other Accession	Q9R1R4 , A6QLE1 , NP_055105.2
Reactivity	Human, Mouse
Predicted	Rat, Bovine, Canine, Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB24956
Calculated MW	123586
Antigen Region	807-835

Additional Information

Gene ID	23424
Other Names	Tudor domain-containing protein 7, PCTAIRE2-binding protein, Tudor repeat associator with PCTAIRE-2, Trap, TDRD7, PCTAIRE2BP
Target/Specificity	This TDRD7 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 807-835 amino acids from the C-terminal region of human TDRD7.
Dilution	WB~~1:1000 IHC-P~~1:100~500 FC~~1:10~50 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	TDRD7 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	TDRD7
Synonyms	PCTAIRE2BP

Function	Component of specific cytoplasmic RNA granules involved in post-transcriptional regulation of specific genes: probably acts by binding to specific mRNAs and regulating their translation. Required for lens transparency during lens development, by regulating translation of genes such as CRYBB3 and HSPB1 in the developing lens. Also required during spermatogenesis.
Cellular Location	Cytoplasm. Note=Localizes to cytoplasmic RNA granules. Present in chromatoid body (CB) of spermatids (mammalian counterpart of germplasm, pole plasm or polar granules in <i>Drosophila</i> germ cells), also named processing bodies (P-bodies) in somatic cells. Detected in the multilobular cytoplasmic CBs (also called intermitochondrial cementin) in pachytene spermatocytes and as a single perinuclear CB in haploid round spermatids (By similarity).

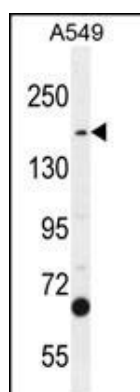
Background

TDRD7, also known as Tudor domain containing protein 7, is a component of chromatoid bodies in spermatids (named processing bodies or P-bodies in somatic cells). It is found in a mRNP complex together with TDRD1, TDRD6 and DDX4. It is also found in a complex with CABLES1, PCTK2 and PIWIL1. TDRD7 has been shown to interact with histone H3 tri-methylated at K9 in vitro.

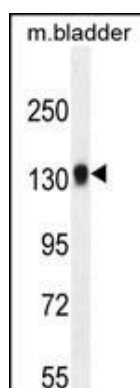
References

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 Conte, N., et al. *Oncogene* 22(50):8102-8116(2003)
 Lauffart, B., et al. *Biochem. J.* 363 (PT 1), 195-200 (2002) :
 Yamochi, T., et al. *Biochem. Biophys. Res. Commun.* 286(5):1045-1050(2001)
 Hirose, T., et al. *Eur. J. Biochem.* 267(7):2113-2121(2000)

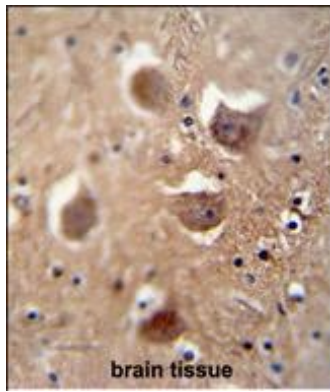
Images



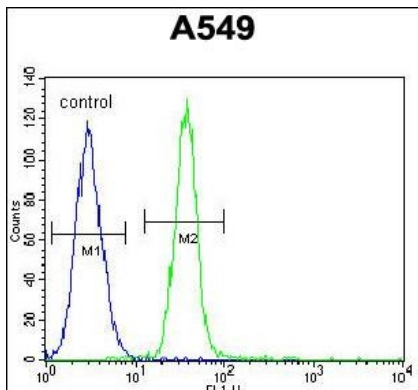
TDRD7 Antibody (C-term) (Cat. #AP10982b) western blot analysis in A549 cell line lysates (35ug/lane). This demonstrates the TDRD7 antibody detected the TDRD7 protein (arrow).



TDRD7 Antibody (C-term) (Cat. #AP10982b) western blot analysis in mouse bladder tissue lysates (35ug/lane). This demonstrates the TDRD7 antibody detected the TDRD7 protein (arrow).



TDRD7 antibody (C-term) (Cat. #AP10982b) immunohistochemistry analysis in formalin fixed and paraffin embedded human brain tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the TDRD7 antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.



TDRD7 Antibody (C-term) (Cat. #AP10982b) flow cytometric analysis of A549 cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.