10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

TDRD7 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP10982b

Specification

TDRD7 Antibody (C-term) - Product Information

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

TDRD7 Antibody (C-term) - 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~~1:50~100
FC~~1:10~50

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.

TDRD7 Antibody (C-term) - Protein Information

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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.

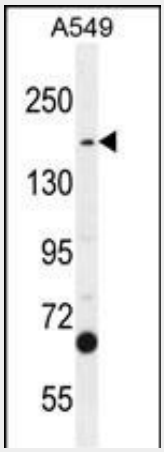
Cellular Location
Cytoplasm. Note=Localizes to cytoplasmic RNA granules. Present in chromatoid body (CB) of spermatids (mammalian counterpart of germplasm, pole plasm or polar granules in Drosophila germ cells), also named processing bodies (P-bodies) in somatic cells. Detected in the multilobular cytoplasmic CBs (also called intermitochondrial cementin) in pachytene spermatocytes and as a single perinuclear CB in haploid round spermatids (By similarity).

TDRD7 Antibody (C-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

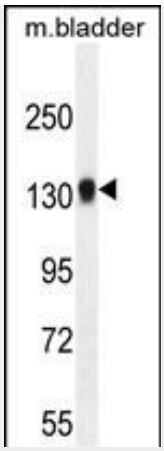
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

TDRD7 Antibody (C-term) - Images

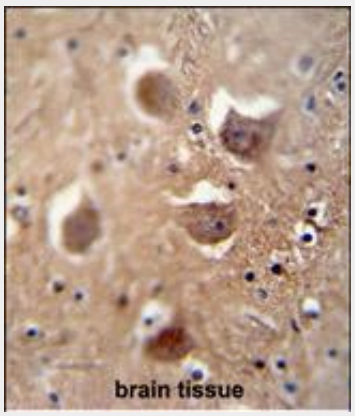


TDRD7 Antibody (C-term) (Cat. #AP10982b) western blot analysis in A549 cell line lysates (35ug/lane).This demonstrates the TDRD7 antibody detected the TDRD7 protein (arrow).

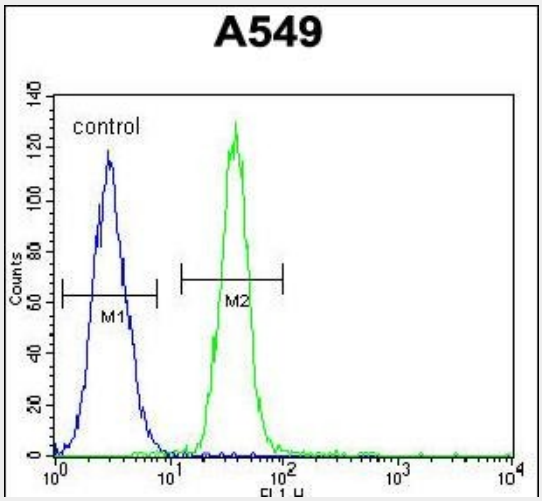
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TDRD7 Antibody (C-term) (Cat. #AP10982b) western blot analysis in mouse bladder tissue lysates (35ug/lane).This demonstrates the TDRD7 antibody detected the TDRD7 protein (arrow).



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.

TDRD7 Antibody (C-term) - 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.

TDRD7 Antibody (C-term) - References

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Conte, N., et al. Oncogene 22(50):8102-8116(2003)
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