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EXDL1 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP55659

Product Information

Application	WB, IHC-P, IHC-F, IF, ICC
Primary Accession	Q8NHP7
Reactivity	Rat, Pig, Dog, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	58335
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human EXDL1
Epitope Specificity	101-200/514
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 EXD1 family. Contains 1 3'-5' exonuclease domain.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	EXDL1 is a 514 amino acid protein that belongs to the EXD1 family and contains one 3'-5' exonuclease domain. Existing as two alternatively spliced isoforms, the gene encoding EXDL1 maps to human chromosome 15q15.1 and mouse chromosome 2 E5. Encoding more than 700 genes, chromosome 15 is made up of approximately 106 million base pairs and is about 3% of the human genome. Angelman and Prader-Willi syndromes are associated with loss of function or deletion of genes in the 15q11-q13 region. In the case of Angelman syndrome, this loss is due to inactivity of the maternal 15q11-q13 encoded UBE3A gene in the brain by either chromosomal deletion or mutation. In cases of Prader-Willi syndrome, there is a partial or complete deletion of this region from the paternal copy of chromosome 15.

Additional Information

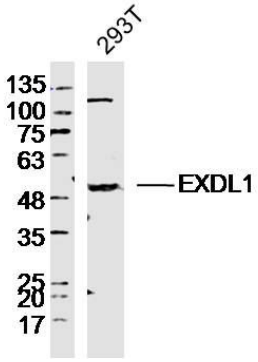
Gene ID	161829
Other Names	piRNA biogenesis protein EXD1, Exonuclease 3'-5' domain-containing protein 1 {ECO:0000312|HGNC:HGNC:28507}, Exonuclease 3'-5' domain-like-containing protein 1 {ECO:0000312|HGNC:HGNC:28507}, Inactive exonuclease EXD1, EXD1, EXDL1
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,ICC=1:100-500,IF=1:100-500
Format	0.01M TBS(pH7.4) with 1% BSA, 0.09% (W/V) sodium azide and 50% Glyce

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.

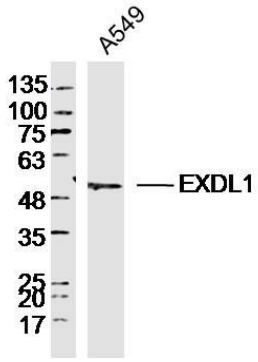
Protein Information

Name	EXD1
Synonyms	EXDL1
Function	RNA-binding component of the PET complex, a multiprotein complex required for the processing of piRNAs during spermatogenesis. The piRNA metabolic process mediates the repression of transposable elements during meiosis by forming complexes composed of piRNAs and Piwi proteins and governs the methylation and subsequent repression of transposable elements, preventing their mobilization, which is essential for the germline integrity (By similarity). The PET complex is required during the secondary piRNAs metabolic process for the PIWIL2 slicing-triggered loading of PIWIL4 piRNAs. In the PET complex, EXD1 probably acts as an RNA adapter. EXD1 is an inactive exonuclease (By similarity).
Cellular Location	Cytoplasm {ECO:0000250|UniProtKB:H9IUR0}. Note=Component of the meiotic nuage, also named P granule, a germ-cell- specific organelle required to repress transposon activity during meiosis. {ECO:0000250|UniProtKB:H9IUR0}

Images

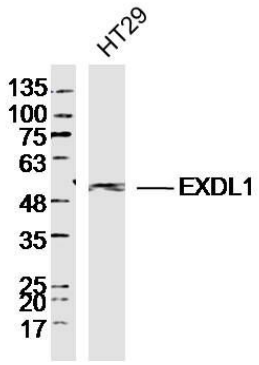


Sample: 293T (Human)Cell Lysate at 40 ug
Primary: Anti-EXDL1(AP55659)at 1/300 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 58 kD
Observed band size: 58 kD

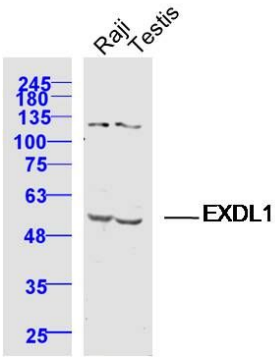


Sample: A549 (Human) Cell Lysate at 40 ug
Primary: Anti-EXDL1(AP55659)at 1/300 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 58 kD
Observed band size: 52 kD

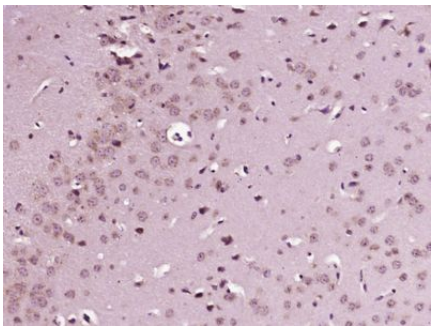
Sample:HT29 (Human) Cell Lysate at 40 ug
Primary: Anti-EXDL1(AP55659)at 1/300 dilution



Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 58 kD
Observed band size: 58 kD



Sample:
Raji Cell (Human) Lysate at 40 ug
Testis (Mouse) Lysate at 40 ug
Primary: Anti-EXDL1 (AP55659) at 1/300 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 58 kD
Observed band size: 58 kD



Paraformaldehyde-fixed, paraffin embedded (Mouse brain); 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 (EXDL1) Polyclonal Antibody, Unconjugated (AP55659) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.