

LRDD Polyclonal Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP58690**Specification****LRDD Polyclonal Antibody - Product Information**

Application	IHC-P, IHC-F, IF, E
Primary Accession	Q9HB75
Reactivity	Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	100 KDa
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human LRDD/PIDD
Epitope Specificity	551-650/910
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.
SIMILARITY	Contains 1 death domain. Contains 7 LRR (leucine-rich) repeats. Contains 1 peptidase S68 domain. Contains 2 ZU5 domains.
SUBUNIT	Interacts with FADD and MAP-kinase activating death domain/MADD. Forms a complex with IKBKG and with receptor-interacting serine-threonine kinase 1/RIP1. Forms also a complex named PIDDosome with CASP2 and CRADD.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Background Descriptions

The death domain (DD) containing protein PIDD is a p53 target gene in an erythroleukemia cell line that undergoes G1 phase arrest and subsequent apoptosis after p53 expression. Independently, PIDD was also described as a DD-containing protein with unknown function. The N-terminal region of PIDD contains seven leucine-rich repeats (LRRs), a protein interaction motif found in various proteins with diverse functions, followed by two ZU-5 domains and a C-terminal DD. PIDD forms a complex with caspase-2 and the adaptor protein RAIDD. Increased PIDD expression results in spontaneous activation of caspase-2 and sensitization to apoptosis by genotoxic stimuli, via interaction with caspase-2 and CRADD/RAIDD. PIDD also promotes apoptosis downstream of p53 as component of the DNA damage/stress response pathway that connects p53/TP53 to apoptosis. PIDD has also been shown to interact with NEMO/IKBKG and RIP1 and enhance sumoylation and ubiquitination of NEMO/IKBKG, an important component for activation of the transcription factor NF-kappa-B.

LRDD Polyclonal Antibody - Additional Information

Gene ID 55367

Other Names

p53-induced death domain-containing protein 1, 3.4.21.-, Leucine-rich repeat and death domain-containing protein, PIDD-N, PIDD-C, PIDD-CC, PIDD1 {ECO:0000303|PubMed:28397838, ECO:0000312|HGNC:HGNC:16491}

Target/Specificity

Ubiquitous.

Dilution

IHC-P~~N/A<br \>IHC-F~~N/A<br \>IF~~1:50~200<br \>E~~N/A

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.

LRDD Polyclonal Antibody - Protein Information

Name PIDD1 {ECO:0000303|PubMed:28397838, ECO:0000312|HGNC:HGNC:16491}

Function

Component of the DNA damage/stress response pathway that functions downstream of p53/TP53 and can either promote cell survival or apoptosis (PubMed:10973264, PubMed:15073321, PubMed:16360037, PubMed:17159900). Associated with CRADD and the CASP2 caspase, it forms the PIDDosome a complex that activates CASP2 and triggers apoptosis (PubMed:15073321, PubMed:17159900). Associated with IKBKG and RIPK1, it enhances sumoylation and ubiquitination of IKBKG which is important for activation of the transcription factor NF-kappa-B (PubMed:16360037, PubMed:17159900).

Cellular Location

Cytoplasm. Nucleus Note=Enriched in the nucleus upon DNA damage

Tissue Location

Ubiquitous..

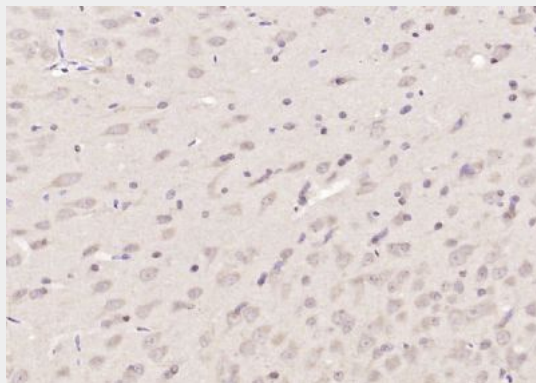
LRDD Polyclonal Antibody - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)

- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

LRDD Polyclonal Antibody - Images



Paraformaldehyde-fixed, paraffin embedded (rat 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 (LRDD) Polyclonal Antibody, Unconjugated (bs-7615R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.