

Anti-LRDD Polyclonal Antibody

Product Details

Ig Type:	IgG
Reactivity:	Rat (predicted:Human,Mouse)
Molecular Weight:	Theoretical: 100 kDa.
Purification:	Protein A purified

Applications

Verified Activity:	Paraformaldehyde-fixed, paraffin embedded (rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (LRDD) Polyclonal Antibody, Unconjugated (TMAB-08384) at 1: 200 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.
Application:	IHC-P,IHC-Fr,IF
Recommended	IHC-P: 1:100-500; IHC-Fr: 1:100-500; IF: 1:100-500

Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	KLH conjugated synthetic peptide: human LRDD/PIDD
Antigen Species:	Human
Gene ID:	55367
Uniprot ID:	Q9HB75

Research Background

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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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