

Product datasheet

Anti-PIDD1 antibody ab231315

3 Images

Overview

Product name	Anti-PIDD1 antibody
Description	Rabbit polyclonal to PIDD1
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P
Species reactivity	Reacts with: Mouse
Immunogen	<p>Recombinant fragment (His-T7-tag) corresponding to Mouse PIDD1 aa 666-915. Expressed in E.coli. N-terminal tags.</p> <p>Sequence:</p> <p>EMFEGEKFFAAFERGIDVDADRPDCVDGRICVFYSH LKNVKEVYTTAL DREAQDVRGQVSFYRGSLPVEVPAEAEAAARQRKGTD ALWMATLPIKLPRL RGAQGSQGTDGDFSLMPLNLGDAETGFLTQSNLLSVAS RLGPDWPAVALHL GMPYHKLQRIRHEFRDDLDGQVRHMLFSWAERQTGQ PGAVGHLVQALEQS DRRDVAEEVRAILELGRHKYQDSIRRTGLAPEDSTLPG TSASQTPEAQA</p> <p>Database link: Q9ERV7</p> <p style="text-align: right;"> Run BLAST with  Run BLAST with</p>
Positive control	IHC-P: Mouse kidney tissue. WB: Mouse brain lysate; Recombinant mouse PIDD1 protein.
General notes	This product was previously labelled as LRDD

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.40 Preservative: 0.02% Sodium azide

	Constituents: PBS, 50% Glycerol
Purity	Immunogen affinity purified
Purification notes	ab231315 was purified by antigen-specific affinity chromatography followed by Protein A affinity chromatography.
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab231315** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use a concentration of 0.2 - 2 µg/ml. Predicted molecular weight: 101 kDa.
IHC-P		Use a concentration of 5 - 20 µg/ml.

Target

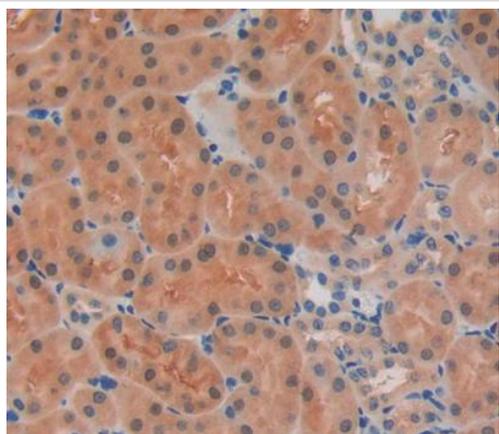
Relevance

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.

Cellular localization

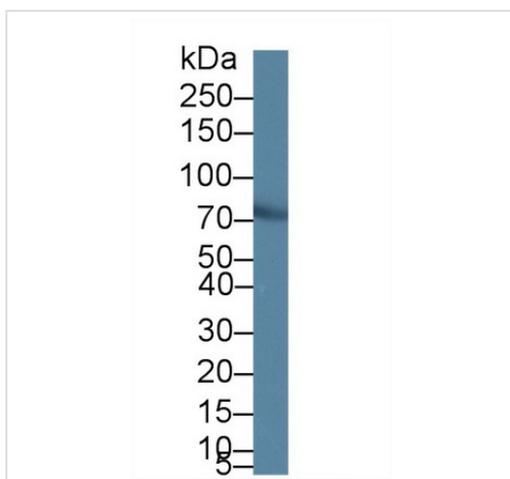
Cytoplasm. Nucleus.

Images



Formalin-fixed, paraffin-embedded mouse kidney tissue stained for PID1 using ab231315 at 20 $\mu\text{g}/\text{ml}$ in immunohistochemical analysis. DAB staining.

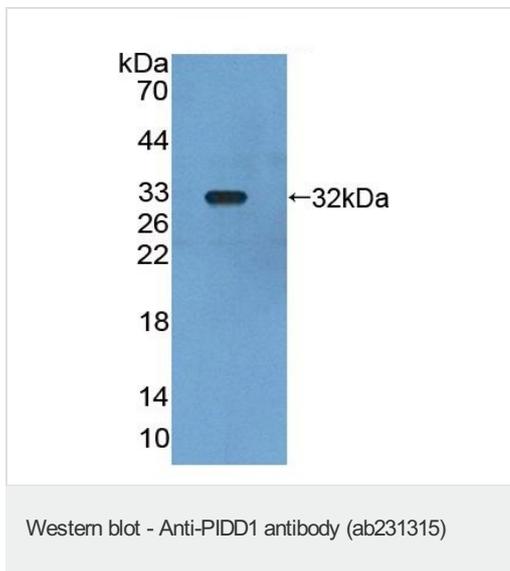
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PID1 antibody (ab231315)



Anti-PID1 antibody (ab231315) at 2 $\mu\text{g}/\text{ml}$ + Mouse brain lysate

Predicted band size: 101 kDa

Western blot - Anti-PID1 antibody (ab231315)



Anti-PIDD1 antibody (ab231315) at 2 µg/ml + Recombinant mouse PIDD1 protein

Predicted band size: 101 kDa

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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