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

DDI2 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP5959c

Product Information

Application	WB, E
Primary Accession	Q5TDH0
Other Accession	A2ADY9, NP_115717.3
Reactivity	Human, Mouse
Predicted	Rat, Bovine, Canine, Rabbit, Chicken
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB27417
Calculated MW	44523
Antigen Region	167-196

Additional Information

Gene ID	84301
Other Names	Protein DDI1 homolog 2, DDI2
Target/Specificity	This DDI2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 167-196 amino acids from the Central region of human DDI2.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
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	DDI2 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

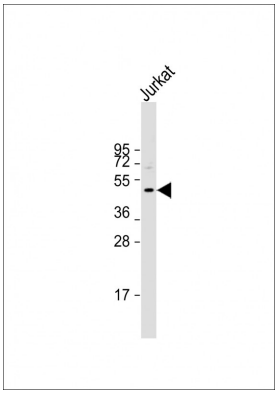
Protein Information

Name	DDI2 (HGNC:24578)
Function	Aspartic protease that mediates the cleavage of NFE2L1/NRF1 at 'Leu-104', thereby promoting release of NFE2L1/NRF1 from the endoplasmic reticulum membrane (PubMed:27528193, PubMed:27676298). Ubiquitination of

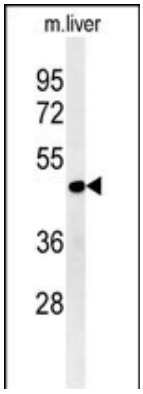
NFE2L1/NRF1 is a prerequisite for cleavage, suggesting that DDI2 specifically recognizes and binds ubiquitinated NFE2L1/NRF1 (PubMed:27528193). Seems to act as a proteasomal shuttle which links the proteasome and replication fork proteins like RTF2 (Probable). Required, with DDI1, for cellular survival following replication stress. Together or redundantly with DDI1, removes RTF2 from stalled forks to allow cell cycle progression after replication stress and maintains genome integrity (PubMed:29290612).

Cellular Location Cytoplasm, cytosol. Chromosome

Images



Anti-DDI2 Antibody (Center) at 1:500 dilution + Jurkat whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 45 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



DDI2 Antibody (Center) (Cat. #AP5959c) western blot analysis in mouse liver tissue lysates (15ug/lane).This demonstrates the DDI2 antibody detected DDI2 protein (arrow).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.