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Datasheet for 200-401-AS2

DAD1 Antibody

Overview

Description:	Anti-DAD1 (RABBIT) Antibody - 200-401-AS2
Item No.:	200-401-AS2
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human, Mouse
Host Species:	Rabbit

Product Details

Background:	Defender of cell death 1 (DAD1) was initially discovered in BHK21 cells as a negative regulator of programmed cell death, a process important for normal organism development and tissue homeostasis. DAD1 was later shown to be a subunit of the mammalian oligosaccharyltransferase complex and is required for its function and structural integrity. Mice lacking DAD1 express abnormal N-linked glycoproteins and undergo increased apoptotic-associated embryonic death. Furthermore, overexpression of DAD1 mRNA is seen in some human hepatocellular carcinomas, indicating it may also play a role in carcinogenesis. It should be noted that DAD1 is not related to the inhibitor of apoptosis proteins (IAP) family and does not contain any baculoviral IAP repeat (BIR) domains.
Synonyms:	DAD1 Antibody, OST2, Dolichyl-diphosphooligosaccharide--protein glycosyltransferase subunit DAD1, Defender against cell death 1, Oligosaccharyl transferase subunit DAD1
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	DAD1
Reactivity:	Human, Mouse
Immunogen Type:	Conjugated Peptide

Immunogen:	Anti-DAD1 antibody was prepared from whole rabbit serum produced by repeated immunizations with a peptide corresponding to 14 amino acids near the C-terminus of human DAD1.
Purity/Specificity:	Anti-DAD1 Antibody is affinity chromatography purified via peptide column. Cross reactivity with DAD1 from other sources has not been determined.
Relevant Links:	• UniProtKB - P61803 • GeneID - 1603 • NCBI - AAH09798

Application Details

Tested Applications:	ELISA, IF, IHC, WB
Application Note:	Anti-DAD1 Antibody has been tested for use in ELISA, Western Blotting, Immunocytochemistry, and Immunofluorescence. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 12 kDa in Western Blots of specific cell lysates and tissues.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:5000 - 1:20,000
IF:	10 µg/mL
WB:	0.5-2 µg/mL

Formulation

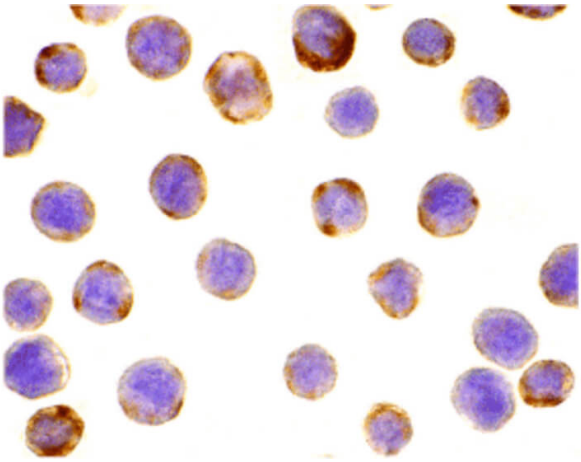
Physical State:	Liquid (sterile filtered)
Concentration:	1 mg/mL by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

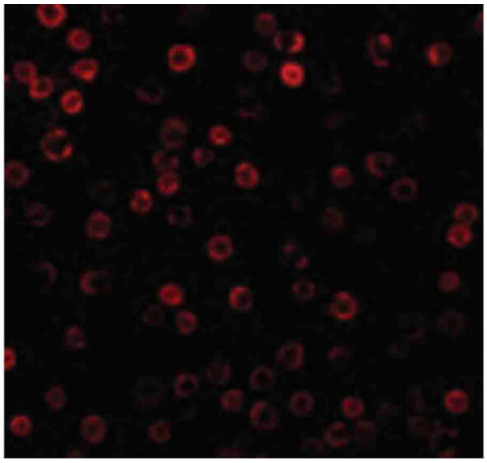
Shipping Condition:	Dry Ice

Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

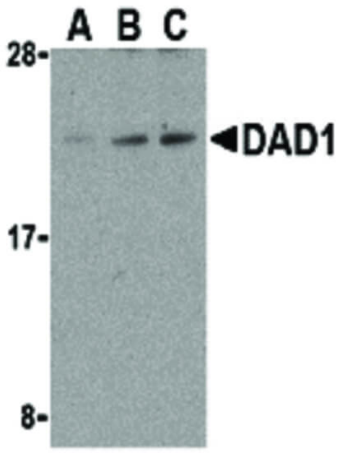
Images



Immunohistochemistry
Immunocytochemistry of DAD1 antibody. Cell Type: HepG2 cells. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: DAD1 antibody at 10 µg/mL for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: DAD1 is located in the endoplasmic reticulum and the cell membrane. Staining: DAD1 is stained brown with hematoxylin purple nuclear counterstain.



Immunofluorescence Microscopy
Immunofluorescence Microscopy of DAD1 antibody. Cell Type: HepG2 cells. Fixation: 0.5% PFA. Antigen retrieval: not required. Primary antibody: DAD1 antibody at 10 µg/mL for 1 h at RT. Secondary antibody: Fluorescein rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: DAD1 is located in the endoplasmic reticulum and the cell membrane. Staining: DAD1 as red fluorescent signal.



Western Blot

Western Blot of DAD1 antibody in HepG2 cell lysate. Lane A: DAD1 antibody at 0.5 µg/mL. Lane B: DAD1 antibody at 1 µg/mL. Lane B: DAD1 antibody at 2 µg/mL. Load: 35 µg per lane. Primary antibody: DAD1 antibody at designated concentrations for overnight at 4°C. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C.
Predicted/Observed size: 12 kDa, 25 kDa for DAD1. Other band(s): DAD1 splice variants and isoforms.

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