



Product datasheet

Anti-PDSS2 antibody [OT11D12] ab119768

[2 References](#) [7 Images](#)

Overview

Product name	Anti-PDSS2 antibody [OT11D12]
Description	Mouse monoclonal [OT11D12] to PDSS2
Host species	Mouse
Tested applications	Suitable for: WB, IHC-P, Flow Cyt (Intra)
Species reactivity	Reacts with: Human, African green monkey, Recombinant fragment
Immunogen	Recombinant full length protein corresponding to Human PDSS2 aa 1-400. Produced in HEK-293T cells (NP_065114). Database link: Q86YH6
	 Run BLAST with  Run BLAST with
Positive control	WB: HEK-293T cell lysate transfected with pCMV6-ENTRY PDSS2 cDNA; HepG2 and COS7 cell extracts. IHC-P: Human kidney, lung carcinoma, endometrium adenocarcinoma and lymphoma tissues. Flow Cyt (Intra): HEK-293T cells transfected with PDSS2 overexpress plasmid.
General notes	Clone OT11D12 (formerly 1D12). The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

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. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.30 Preservative: 0.02% Sodium azide Constituents: PBS, 1% BSA, 50% Glycerol
Purity	Affinity purified

Purification notes	Purified from cell culture supernatant
Clonality	Monoclonal
Clone number	OT11D12
Isotype	IgG1

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab119768 in the following tested applications.

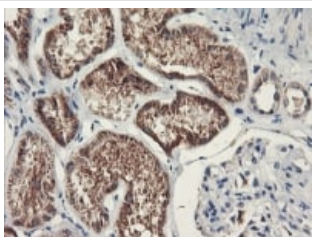
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/500 - 1/2000. Predicted molecular weight: 44 kDa.
IHC-P		1/150. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
Flow Cyt (Intra)		1/100.

Target

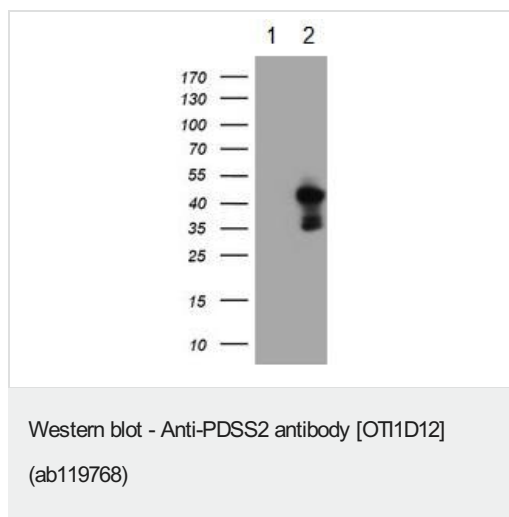
Function	Supplies decaprenyl diphosphate, the precursor for the side chain of the isoprenoid quinones ubiquinone-10.
Pathway	Cofactor biosynthesis; ubiquinone biosynthesis.
Involvement in disease	Defects in PDSS2 are a cause of coenzyme Q10 deficiency (COQ10D) [MIM:607426]. Coenzyme Q10 deficiency is an autosomal recessive disorder with variable manifestations. It can be associated with three main clinical phenotypes: a predominantly myopathic form with central nervous system involvement, an infantile encephalomyopathy with renal dysfunction and an ataxic form with cerebellar atrophy.
Sequence similarities	Belongs to the FPP/GGPP synthase family.
Cellular localization	Mitochondrion.

Images



Paraffin-embedded human kidney tissue stained for PDSS2 using ab119768 at 1/150 dilution in immunohistochemical analysis.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PDSS2 antibody [OT11D12] (ab119768)



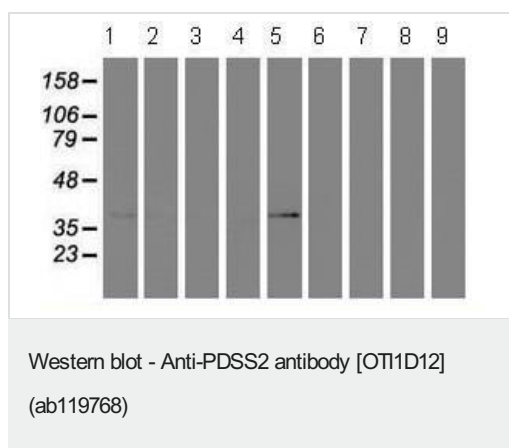
All lanes : Anti-PDSS2 antibody [OTI1D12] (ab119768) at 1/500 dilution

Lane 1 : HEK-293T (human epithelial cell line from embryonic kidney transformed with large T antigen) cell lysate transfected with pCMV6-ENTRY control cDNA

Lane 2 : HEK-293T cell lysate transfected with pCMV6-ENTRY PDSS2 cDNA

Lysates/proteins at 5 µg per lane.

Predicted band size: 44 kDa



All lanes : Anti-PDSS2 antibody [OTI1D12] (ab119768) at 1/500 dilution

Lane 1 : HepG2 (human liver hepatocellular carcinoma cell line) cell extract

Lane 2 : HeLa (human epithelial cell line from cervix adenocarcinoma) cell extract

Lane 3 : SVT2 cell extract

Lane 4 : A549 (human lung carcinoma cell line) cell extract

Lane 5 : COS-7 (african green monkey kidney fibroblast-like cell line) cell extract

Lane 6 : Jurkat (human T cell leukemia cell line from peripheral blood) cell extract

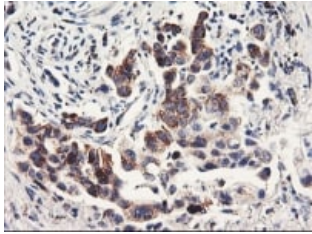
Lane 7 : MDCK (canine kidney cell line) cell extract

Lane 8 : PC-12 (rat adrenal gland pheochromocytoma cell line) cell extract

Lane 9 : MCF7 (human breast adenocarcinoma cell line) cell extract

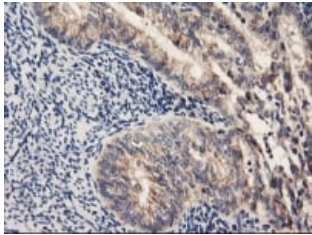
Lysates/proteins at 35 µg per lane.

Predicted band size: 44 kDa



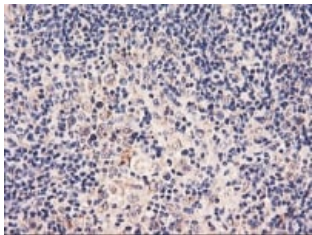
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PDSS2 antibody [OT1D12] (ab119768)

Paraffin-embedded human lung carcinoma tissue stained for PDSS2 using ab119768 at 1/150 dilution in immunohistochemical analysis.



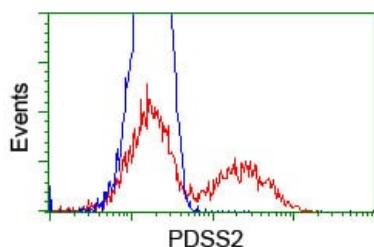
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PDSS2 antibody [OT1D12] (ab119768)

Paraffin-embedded human endometrium adenocarcinoma tissue stained for PDSS2 using ab119768 at 1/150 dilution in immunohistochemical analysis.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PDSS2 antibody [OT1D12] (ab119768)

Paraffin-embedded human lymphoma tissue stained for PDSS2 using ab119768 at 1/150 dilution in immunohistochemical analysis.



Flow Cytometry (Intracellular) - Anti-PDSS2 antibody [OT1D12] (ab119768)

Flow cytometric analysis of HEK-293T (human epithelial cell line from embryonic kidney transformed with large T antigen) cells transfected with either PDSS2 overexpress plasmid (Red) or empty vector control plasmid (Blue) labeling pdss2 with ab119768 at 1/100 dilution.

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