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PRODUCT DATASHEET

Anti-DENND3 (Ser554) Antibody

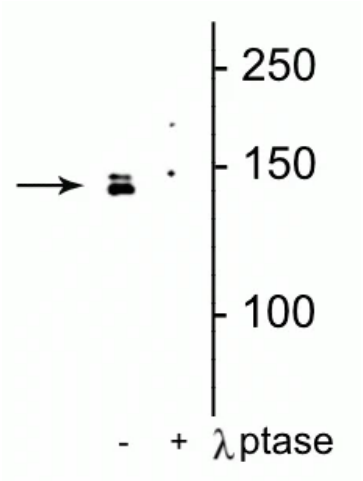
phosphosolutions ANTIBODIES THAT WORK Pooled Serum

Product Details

Available Variants	100 µL (SKU:p1030-554) 25 µL (SKU:p1030-554t)
Conjugate	Unconjugated
Isotype	IgG
Gene Name	DENND3
Host Species	Rabbit
Format	Antigen Affinity Purified from Pooled Serum
Physical State	Liquid
Buffer	10 mM HEPES (pH 7.5), 150 mM NaCl, 100 µg per ml BSA and 50% glycerol.
Production Notes	Prepared from pooled rabbit serum by affinity purification via sequential chromatography on phospho and non-phospho peptide affinity columns.
Applications	ELISA, WB
Dilution Ranges	WB: 1:500
Species Reactivity	Human
Immunogen	Synthetic phospho-peptide corresponding to amino acid residues surrounding Ser554 of human DENND3, conjugated to keyhole limpet hemocyanin (KLH).
Specificity	Specific for endogenous levels of the ~142 kDa DENND3 phosphorylated at Ser554. The immunolabeling is completely eliminated by treatment with λ-phosphatase.
Molecular Weight	142 kDa
Quality Control	Western blots performed on each lot.

Storage	Storage at -20°C is recommended, as aliquots may be taken without freeze/thawing due to presence of 50% glycerol. Stable for at least 1 year at -20°C.
Antibody Registry ID	AB_2560942
UniProt ID	A2RUS2 UniProt Summary: Guanine nucleotide exchange factor (GEF) activating RAB12. Promotes the exchange of GDP to GTP, converting inactive GDP-bound RAB12 into its active GTP-bound form (PubMed:20937701). Regulates autophagy in response to starvation through RAB12 activation. Starvation leads to ULK1/2-dependent phosphorylation of Ser-472 and Ser-490, which in turn allows recruitment of 14-3-3 adapter proteins and leads to up-regulation of GEF activity towards RAB12 (By similarity). Also plays a role in protein transport from recycling endosomes to lysosomes, regulating, for instance, the degradation of the transferrin receptor and of the amino acid transporter PAT4 (PubMed:20937701). Starvation also induces phosphorylation at Tyr-858, which leads to up-regulated GEF activity and initiates autophagy (By similarity). {ECO:0000250|UniProtKB:A2RT67, ECO:0000269|PubMed:20937701}.
Shipping	Blue Ice
Expiration	After date of receipt, stable for at least 1 year at -20°C.
Usage Statement	For research use only. Not intended for therapeutic or diagnostic use. Use of all products is subject to our terms and conditions, which can be viewed on our website.
Expected Reactivity	Non-Human Primate, Mouse, Rat, Sheep
Post Translational Modification Type	Phosphorylated
Post Translational Modification Residue	Ser554
NCBI Gene ID	22898

Product Images



Western blot of HeLa cell lysate showing specific immunolabeling of the ~142 kDa DENND3 protein phosphorylated at Ser554 in the first lane (-). Phosphospecificity is shown in the second lane (+) where immunolabeling is completely eliminated by lysate treatment with lambda phosphatase (λ-Ptase, 800 units/1mg protein for 30 min).