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Product Datasheet

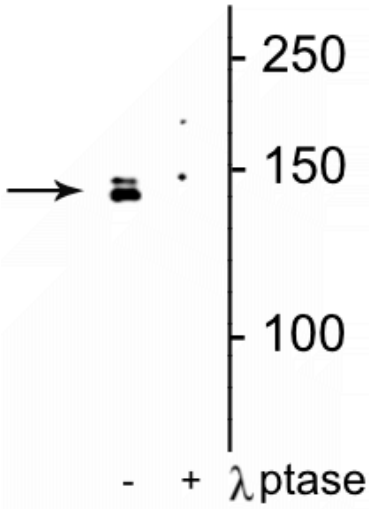
Anti-DENND3 (Ser554)

Pooled Serum

Overview

Catalog #	p1030-554
Host Species	Rabbit Polyclonal
Format	Antigen Affinity Purified from Pooled Serum
Applications	WB 1:500
Species Tested	Human
Expected Reactivity	Non-Human Primate, Mouse, Rat, Sheep
Immunogen	Synthetic phospho-peptide corresponding to amino acid residues surrounding Ser554 of human DENND3, conjugated to keyhole limpet hemocyanin (KLH).
Molecular Weight	142 kDa
Cite this Antibody	PhosphoSolutions Cat# p1030-554, RRID:AB_2560942

Images



Western blot of HeLa cell lysate showing specific immunolabeling of the ~142 kDa DENND3 protein phosphorylated at Ser^{554} 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/1 mg protein for 30 min).

Details

Target Description	The DENN (differentially expressed in normal and neoplastic cells) domain (DENND) is a poorly characterized protein module conserved throughout evolution (Marat, A.L., et al., 2011). Proteins bearing a DENN domain have recently emerged as the largest family of Rab GEFs. Among these DENN domain proteins, DENND3 is a GEF for Rab12; promoting the exchange of GDP to GTP, converting inactive GDP-bound RAB12 into its active GTP-bound form (Xu and McPherson, 2015; Matsui et al., 2011). ULK-mediated phosphorylation of DENND3 at serines 554 and 572 upregulates its GEF activity toward the small GTPase Rab12 (Xu and McPherson, 2015).
Specificity	Specific for endogenous levels of the ~142 kDa DENND3 phosphorylated at Ser554. The immunolabeling is completely eliminated by treatment with λ-phosphatase.
Production/Purification	Prepared from pooled rabbit serum by affinity purification via sequential chromatography on phospho and non-phospho peptide affinity columns.
Quality Control	Western blots performed on each lot.
Buffer	10 mM HEPES (pH 7.5), 150 mM NaCl, 100 µg per ml BSA and 50% glycerol.
Storage	Storage at -20°C is recommended, as aliquots may be taken without freeze/thawing due to presence of 50% glycerol.
Stability	After date of receipt, stable for at least 1 year at -20°C.

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