

DENND3 (Ser554) Antibody
Rabbit Polyclonal Antibody
Catalog # AN1266**Specification**

DENND3 (Ser554) Antibody - Product Information

Application	WB
Primary Accession	D4A2H4
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal

DENND3 (Ser554) Antibody - Additional Information

Gene ID	315055
Gene Name	DENND3

Target/Specificity

Synthetic phospho-peptide corresponding to amino acid residues surrounding Ser554 conjugated to KLH

Dilution

WB~~ 1:500

Format

Antigen Affinity Purified from Pooled Serum

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

DENND3 (Ser554) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Shipping

Blue Ice

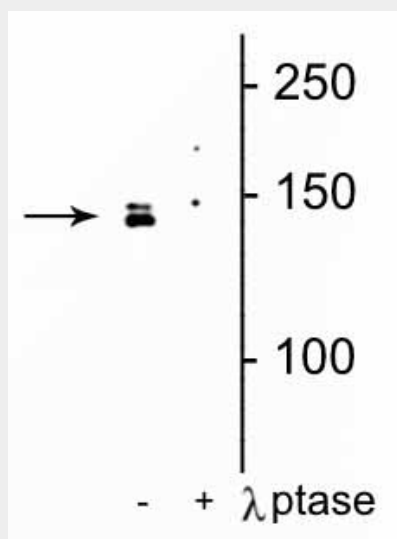
DENND3 (Ser554) Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)

- [Cell Culture](#)

DENND3 (Ser554) Antibody - 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).

DENND3 (Ser554) Antibody - Background

The DENN (differentially expressed in normal and neoplastic cells) domain (DENND) is a poorly characterized protein module conserved throughout evolution (McPherson 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 (McPherson and Xu, 2015; Matsui et al., 2011). ULK-mediated phosphorylation of DENND3 at serines 554 and 572 upregulates its GEF activity toward the small GTPase Rab12 (McPherson and Xu, 2015).