RWDD3 Antibody

Catalog No: #24973

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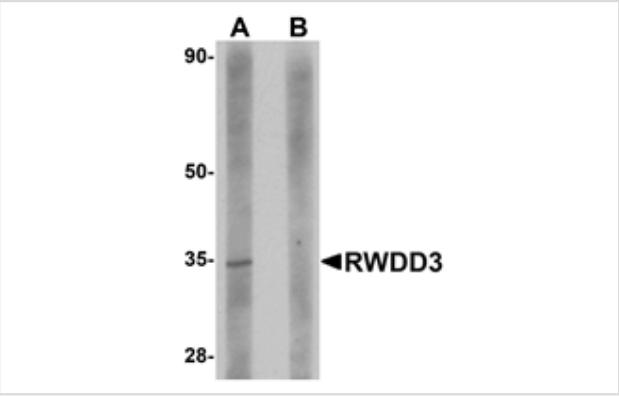
Description

Product Name	RWDD3 Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Affinity chromatography purified via peptide column
Applications	ELISA WB
Species Reactivity	Hu Ms Rt
Immunogen Type	Peptide
Immunogen Description	Raised against a 15 amino acid peptide from near the carboxy terminus of human RWDD3.
Target Name	RWDD3
Other Names	RWD domain containing 3, RSUME, RWD-containing sumoylation enhancer
Accession No.	Swiss-Prot:Q9Y3V2Gene ID:25950
Uniprot	Q9Y3V2
GeneID	25950;
Concentration	1mg/ml
Formulation	Supplied in PBS containing 0.02% sodium azide.
Storage	Can be stored at -20°C, stable for one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.

Images



Western blot analysis of RWDD3 in rat kidney tissue lysate with RWDD3 antibody at 1 ug/mL in (A) the absence and (B) the presence of blocking peptide.

Background

RWDD3 (RSUME), a small RWD-containing protein, has a central role in sumoylation by enhancing SUMO conjugation in the regulatory network of immune-inflammatory signals. RWDD3 increases IκBeta sumoylation and stability. In addition, RWDD3 inhibits TNF-α-induced kappaB-LUC (Luciferase) reporter activity, showing the functional consequence of IκBeta increased stability. RSUME-enhanced sumoylation of IκBeta leads to the inhibition of NF-κBeta activity on two well-known inflammatory genes, IL-8 and cyclooxygenase-2 (Cox-2) and therefore may also favor anti-inflammatory pathways. Expression of RWDD3 was induced under hypoxic conditions and it has a potential role during vascularization. Both BMP-4 and RWDD3 may be interesting targets for inhibiting steps involved in pituitary tumorigenesis.

Note: This product is for in vitro research use only