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Anti-RNF144A Antibody

Catalog # AP51479

Product Information

Application	WB, IHC, IF/IC
Primary Accession	P50876
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	32890

Additional Information

Gene ID	9781
Other Names	KIAA0161; RNF144; UBCE7IP4; Probable E3 ubiquitin-protein ligase RNF144A; RING finger protein 144A; UbcM4-interacting protein 4; Ubiquitin-conjugating enzyme 7-interacting protein 4
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human RNF144A. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000) IHC~~1:100~500 IF/IC~~N/A
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

Name	RNF144A
Synonyms	KIAA0161, RNF144, UBCE7IP4
Function	E3 ubiquitin-protein ligase which accepts ubiquitin from E2 ubiquitin-conjugating enzymes UBE2L3 and UBE2L6 in the form of a thioester and then directly transfers the ubiquitin to targeted substrates (PubMed:26216882). Mediates the ubiquitination and degradation of the DNA damage kinase PRKDC during DNA damage (PubMed:24979766). Positively regulates DNA virus or exogenous cytosolic DNA-triggered innate immune response by mediating STING1 ubiquitination and increasing its 'Lys-6'-linked ubiquitination and translocation from the endoplasmic reticulum to the Golgi leading to downstream signaling pathways (PubMed:37955227). Plays a positive role in EGF-dependent cell proliferation by prolonging EGF/EGFR signaling during EGF stimulation through EGFR ubiquitination (PubMed:30171075). Increases ERK activity independently of EGFR signaling

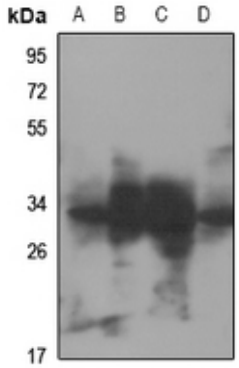
by promoting polyubiquitination and subsequent degradation of VRK3 in the cytosol (PubMed:33067254).

Cellular Location Cell membrane; Single-pass membrane protein. Cytoplasmic vesicle membrane. Endosome membrane. Endoplasmic reticulum membrane

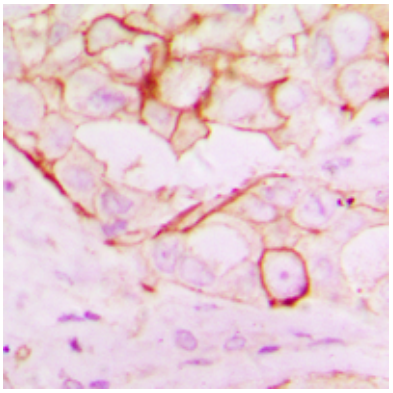
References

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Mural R.J.,et al.Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.
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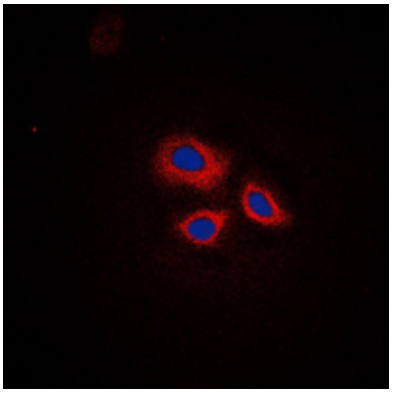
Images



Western blot analysis of RNF144A expression in mouse kidney (A), mouse testis (B), rat kidney (C), rat testis (D) whole cell lysates. (Predicted band size: 32 kD; Observed band size: 33 kD)



Immunohistochemical analysis of RNF144A staining in human breast cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescent analysis of RNF144A staining in HepG2 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a DyLight 594-conjugated secondary antibody (red) in PBS at room temperature in the dark. DAPI was used to stain the cell nuclei (blue).

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