10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

RNF144A Antibody

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP51479

Product Information

Application	WB, ICC, IHC-P
Primary Accession	P50876
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	32890

Additional Information

Gene ID	9781
Other Names	E3 ubiquitin-protein ligase RNF144A, 632-, RING finger protein 144A, UbcM4-interacting protein 4, Ubiquitin-conjugating enzyme 7-interacting protein 4, RNF144A, KIAA0161, RNF144, UBCE7IP4
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human RNF144A. The exact sequence is proprietary.
Dilution	WB~~1:1000 ICC~~N/A IHC-P~~N/A
Format	0.01M PBS, pH 7.2, 0.09% (W/V) Sodium azide, Glycerol 50%
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

Background

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 (By similarity).

References

Nagase T.,et al.DNA Res. 3:17-24(1996).
Hillier L.W.,et al.Nature 434:724-731(2005).
Mural R.J.,et al.Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.
Martinez-Noel G.,et al.FEBS Lett. 454:257-261(1999).