

RANBP10 Antibody

Catalog # ASC11094

Product Information

Application	WB, IF, E, IHC-P
Primary Accession	Q6VN20
Other Accession	EAW83167 , 119603573
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	67257
Concentration (mg/ml)	1 mg/mL
Conjugate	Unconjugated
Application Notes	RANBP10 antibody can be used for detection of RANBP10 by Western blot at 1 - 2 μ g/mL. Antibody can also be used for immunohistochemistry starting at 5 μ g/mL. For immunofluorescence start at 20 μ g/mL.

Additional Information

Gene ID	57610
Other Names	Ran-binding protein 10, RanBP10, RANBP10, KIAA1464
Target/Specificity	RANBP10;
Reconstitution & Storage	RANBP10 antibody can be stored at 4°C for three months and -20°C, stable for up to 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.
Precautions	RANBP10 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	RANBP10
Synonyms	KIAA1464
Function	May act as an adapter protein to couple membrane receptors to intracellular signaling pathways (Probable). Core component of the CTLH E3 ubiquitin-protein ligase complex that selectively accepts ubiquitin from UBE2H and mediates ubiquitination and subsequent proteasomal degradation of the transcription factor HBP1 (PubMed: 29911972). Enhances dihydrotestosterone-induced transactivation activity of AR, as well as dexamethasone-induced transactivation activity of NR3C1, but does not affect estrogen-induced transactivation (PubMed: 18222118). Acts as a guanine

nucleotide exchange factor (GEF) for RAN GTPase. May play an essential role in hemostasis and in maintaining microtubule dynamics with respect to both platelet shape and function (By similarity).

Cellular Location

Cytoplasm, cytosol. Nucleus. Note=Predominantly cytoplasmic

Tissue Location

Broadly expressed, with highest levels in skeletal muscle.

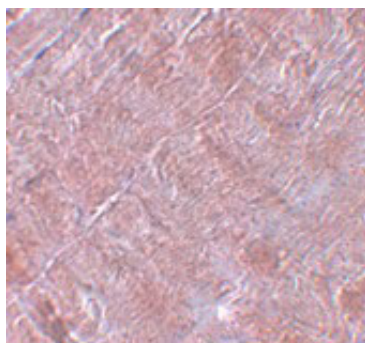
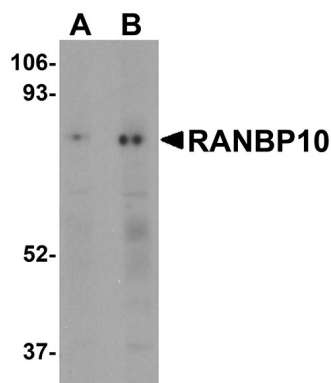
Background

RANBP10 Antibody: The RAN binding protein 10 (RANBP10) is a cytoplasmic guanine nucleotide exchange factor that shares high sequence similarity to the MET-interacting protein RANBP9. RANBP10 is expressed in the cytoplasm of mature megakaryocytes (MKs) and platelets where it localizes to polymerized noncentrosomal microtubules. RANBP10 possesses guanine nucleotide exchange factor activity towards RAN, a GTPase involved in nucleocytoplasmic traffic, spindle formation at mitosis, and nuclear envelope assembly during telophase, suggesting that RANBP10 may also be involved in these activities. RANBP10 depletion in vitro caused the disturbance of polymerized filaments in MKs and platelets in RANBP10-null mice exhibited disorders in microtubule filament numbers and localization, indicating that RANBP10 may play a significant role in maintaining microtubule dynamics.

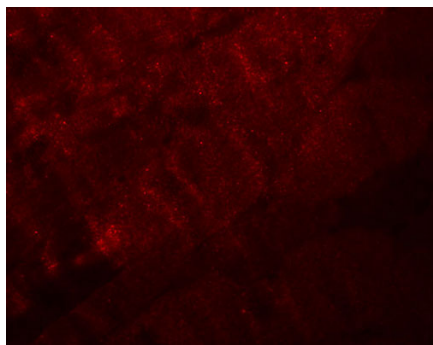
References

- Wang D, Zaibo Li, Schoen SR, et al. A novel MET-interacting protein shares high sequence similarity with RanBPM, but fails to stimulate MET-induced Ras/ERK signaling. *Biochem. Biophys. Res. Comm.*2004; 313:320-6.
- Schulze H, Dose M, Korpall M, et al. RanBP10 is a cytoplasmic guanine nucleotide exchange factor that modulates noncentrosomal microtubules. *J. Biol. Chem.*2008; 283:14109-19.
- Dasso M. The Ran GTPase: theme and variations. *Curr. Biol.*2002; R502-8.
- Kunert S, Meyer I, Fleischhauer S, et al. The microtubule modulator RanBP10 plays a critical role in regulation of platelet discoid shape and degranulation. *Blood*2009; 114:5532-40.

Images



Immunohistochemistry of RANBP10 in human skeletal muscle tissue with RANBP10 antibody at 5 µg/mL.



Immunofluorescence of RANBP10 in mouse skeletal muscle tissue with RANBP10 antibody at 20 µg/mL.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.