

Rab27B Antibody



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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: W	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 27	Source/Isotype: Rabbit	UniProt ID: #O00194	Entrez-Gene Id: 5874
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Product Usage Information

Application

Western Blotting

Dilution

1:1000

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at -20°C. *Do not aliquot the antibody.*

Specificity/Sensitivity

Rab27B Antibody recognizes endogenous levels of total Rab27B protein. Overexpression analysis confirms that this antibody does not detect Rab27A.

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human Rab27B protein. Antibodies are purified by protein A and peptide affinity chromatography.

Background

Rab27 proteins are members of the Ras superfamily of small Rab GTPases associated with the process of exocytosis (1-2), and in particular the exosome secretion pathway (3-5). There are two Rab27 isoforms, Rab27A and Rab27B, which are encoded by separate genes and which exhibit distinct subcellular localization and functions. Rab27A colocalizes to CD63⁺ vesicles, whereas Rab27B is observed in perinuclear vesicles. Targeted knockdown studies suggest that the isoforms control distinct steps of the exosome secretion pathway (6). Rab27A participates in docking and membrane fusion from multivesicular endosomes (MVEs) to exosomes, whereas Rab27B mediates the transfer of membrane vesicles from the trans-Golgi network to MVEs. It has been suggested that Rab27A and Rab27B may have importance in exosome secretion by cancer cells (7).

Background References

1. Fukuda, M. (2013) *Traffic* 14, 949-63.
2. Izumi, T. (2007) *Endocr J* 54, 649-57.
3. Elstak, E.D. et al. (2011) *Blood* 118, 1570-8.
4. Bahadoran, P. et al. (2001) *J Cell Biol* 152, 843-50.
5. Wood, S.M. et al. (2009) *Blood* 114, 4117-27.
6. Ostrowski, M. et al. (2010) *Nat Cell Biol* 12, 19-30; sup pp 1-13.
7. Li, Z. et al. (2018) *Cell Commun Signal* 16, 44.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting

Cross-Reactivity Key

H: Human

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