

DESCRIPTION

Species Reactivity	Human/Mouse/Rat
Specificity	Detects human, mouse, and rat RAB27A in Western blots and detects recombinant human RAB27A in direct ELISAs. In direct ELISAs, less than 1% cross-reactivity with recombinant human RAB27B is observed.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human RAB27A Ser135-Ala218 Accession # P51159
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

Western Blot	Optimal dilution of this antibody should be experimentally determined.
Immunocytochemistry	Optimal dilution of this antibody should be experimentally determined.
Immunoprecipitation	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

RAB27A (Ras-related protein Rab 27A; also GTP-binding protein Ram) is a 27-28 kDa member of the Rab27 subfamily, Rab family, Small GTPase superfamily of proteins. It is widely expressed, and found in cells diverse as mast cells, cytotoxic T cells, melanocytes, retinal pigment epithelium and pancreatic β -cells. RAB27A plays a key role in the secretion of specialized lysosomes termed secretory lysosomes. In melanocytes, for example, RAB27A is incorporated into the melanosome membrane where it serves as a docking factor for melanophilin and myosin-Va, regulating melanosome transport to, and concentration at, sites of release. Human RAB27A is 221 amino acids (aa) in length. It contains multiple Rab family and subfamily motifs, and concludes with a C-terminal CXC prenylation sequence (aa 219-221). There is one potential splice variant that shows a deletion of aa 146-153. Over aa 135-218, human RAB27A shares 92% and 94% aa sequence identity with mouse Rab27A and rat RAB27A, respectively.

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