

DESCRIPTION

Species Reactivity	Human
Specificity	Detects endogenous human BRDG1 in Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human BRDG1 Ala177-Ser280 Accession # Q9ULZ2
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 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.

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

BCR downstream-signaling protein 1 (BRDG1; also known as Signal-transducing adaptor protein 1, STAP1) is a 36-37 kDa adaptor molecule that is involved in inflammation. It is expressed in hematopoietic cells, including B cells, macrophages and microglia. BRDG1 is believed to promote and prolong the immune response by controlling cell migration, secretion and phagocytosis. It does so by likely controlling the recruitment of signaling kinases to TRKs, and potentiating BCR-mediated activation of CREB and Elk-1. Human BRDG1 is 295 amino acids (aa) in length and contains a plextrin homology domain that binds to membrane phospholipids (aa 25-121), and one SH2 domain that recognizes phosphorylated Tyr residues (aa 176-259). There is a Tec-mediated phosphorylation site at Tyr65. Over amino acids 177-280, human BRDG1 shares 82% aa identity with mouse BRDG1.

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