

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human BAP31 in direct ELISAs and Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human BAP31 Gly165-Glu246 Accession # P51572
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

BAP31 (BCR-associated protein of 31 kDa) is a 29 kDa member of the BCAP29/BCAP31 family of proteins. It is ubiquitously expressed, resides in the ER and serves multiple functions. It is known to act as a cargo receptor for ER export of transmembrane (TM) proteins, and serve as a component of the ER quality control compartment, cycling between the peripheral and juxtanuclear ER. Human BAP31 is a 246 amino acid (aa), 3-TM domain containing protein. Amino acids 1-6 are luminal, 124-246 are cytoplasmic, and 7-27, 44-64 and 103-123 constitute TM segments. BAP31 forms homodimers and heterodimers with BAP29. Cleavage between Asp164Gly165 and Asp238Gly239 generates 20 kDa and 27 kDa fragments, respectively. There is an alternate start site 67 aa upstream from the standard start site. Over aa 165-246, human BAP31 shares 82% aa identity with mouse BAP31.

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