

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Galectin-3BP/MAC-2BP in direct ELISAs and Western blots. In direct ELISAs, less than 20% cross-reactivity with recombinant mouse Galectin-3BP/MAC-2BP is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant human Galectin-3BP/MAC-2BP Val19-Asp585 Accession # Q08380
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.
Immunocytochemistry	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

Galectin-3 binding protein (Galectin-3BP), also known as MAC-2 binding protein (MAC-2BP or M2BP), and the 90 kDa tumor associated antigen (TAA90K or 90K), is a secreted glycoprotein of the scavenger receptor cysteine-rich (SRCR) superfamily (1, 2). Galectin-3BP binds Galectin-3 (formerly MAC-2) with high affinity, but also binds Galectins -1 and -7, several collagen types, fibronectin, β 1 integrins and nidogen (3, 6, 7). It is widely expressed in all extracellular fluids and in pericellular areas of cell-rich tissues (1-3). The 585 amino acid (aa) human Galectin-3BP contains an 18 aa signal sequence and four definitive domains (4-6). Domain 1 is a group A scavenger receptor domain (4), domain 2 is a BTB/POZ domain that strongly mediates dimerization (5), and domain 3 is an IVR domain, that is also found following the POZ domain in *Drosophila* kelch protein. Although little is known about domain 4, recombinant domains 3 and 4 reproduce the solid-phase adhesion profile of full-length Galectin-3BP (5, 6). Glycosylation at seven N-linked sites, generates a molecular size of 85-97 kDa (1, 2, 6). Galectin-3BP dimers form linear and ring-shaped oligomers, most commonly decamers and dodecamers (3, 5). *In vitro*, Galectin-3BP has been shown to stimulate natural killer cells and lymphokine-activated killer cell activity (2). High Galectin-3BP expression has been correlated with tumor aggressiveness in several, but not all, study systems (7). Mature human Galectin-3BP shares 69% aa identity with mouse cyclophilin C-associated protein (CyCAP), which does not appear to bind Galectin-3 (8). Human Galectin-3BP also shares 73%, 67% and 68% aa identity with relatively uncharacterized orthologs in dog, rat and cow, respectively. A human N-terminally truncated sequence that begins within the BTB/POZ domain (aa 196) has been reported.

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