

## DESCRIPTION

|                                                                                                                                                                                                         |                                                                                 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|
| <b>Species Reactivity</b>                                                                                                                                                                               | Human                                                                           |
| <b>Specificity</b>                                                                                                                                                                                      | Detects human plasma-derived Vitamin D BP in direct ELISAs and Western blots.   |
| <b>Source</b>                                                                                                                                                                                           | Monoclonal Mouse IgG <sub>2B</sub> Clone # 359501                               |
| <b>Purification</b>                                                                                                                                                                                     | Protein A or G purified from hybridoma culture supernatant                      |
| <b>Immunogen</b>                                                                                                                                                                                        | Human plasma-derived Vitamin D BP<br>Accession # P02774                         |
| <b>Conjugate</b>                                                                                                                                                                                        | Alexa Fluor 350<br>Excitation Wavelength: 346 nm<br>Emission Wavelength: 442 nm |
| <b>Formulation</b>                                                                                                                                                                                      | 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

Vitamin D BP (VitD BP), also called VDB, DBP, Group Specific Component (Gc) or macrophage-activating factor (DBP- or Gc-MAF), is a member of the albumin family. These plasma/body fluid proteins have a conserved pattern of cysteine motifs that form binding domains. VitD BP is predominantly produced by hepatic parenchymal cells. It transports VitD, activates macrophages and osteoclasts, and enhances C5a chemotactic activity. Over 80 variant alleles have been identified, some of which correlate with osteoporosis or prostate cancer. Human and mouse VitD BP share 78% aa identity.

## PRODUCT SPECIFIC NOTICES

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