

## DESCRIPTION

|                           |                                                                                                                                                                                                                                                                             |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species Reactivity</b> | Mouse                                                                                                                                                                                                                                                                       |
| <b>Specificity</b>        | Detects mouse Vitamin D BP in direct ELISAs and Western blots. In direct ELISAs, approximately 15% cross-reactivity with recombinant human Vitamin D BP is observed.                                                                                                        |
| <b>Source</b>             | Polyclonal Sheep IgG                                                                                                                                                                                                                                                        |
| <b>Purification</b>       | Antigen Affinity-purified                                                                                                                                                                                                                                                   |
| <b>Immunogen</b>          | Mouse myeloma cell line NS0-derived recombinant mouse Vitamin D BP<br>Leu17-Ser476<br>Accession # P21614                                                                                                                                                                    |
| <b>Conjugate</b>          | Alexa Fluor 405<br>Excitation Wavelength: 405 nm<br>Emission Wavelength: 421 nm                                                                                                                                                                                             |
| <b>Formulation</b>        | Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide<br><br>*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

VDBP (Vitamin D binding protein; also group-specific component and GC-globulin) is a 52-58 kDa, monomeric glycoprotein member of the ALB/AFP/VDB family of molecules. It is found in blood, urine and CSF, carries Vitamin D and its metabolites, and serves as an actin-scavenging protein. Mature mouse VDBP is 460 amino acids (aa) in length. It contains three albumin-type domains (aa 26-476) that are accompanied by 14 intrachain disulfide bonds. There are three potential alternative splice forms. One shows a deletion of aa 346-421, a second shows a 67 aa substitution for aa 345-421, and a third shows a 34 aa substitution for aa 346-423. All these variants involve the second and third albumin-like domains. Mature mouse VDBP (aa 17-476) is 77% and 90% aa identical to human and rat VDBP, respectively.

## PRODUCT SPECIFIC NOTICES

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