

## DESCRIPTION

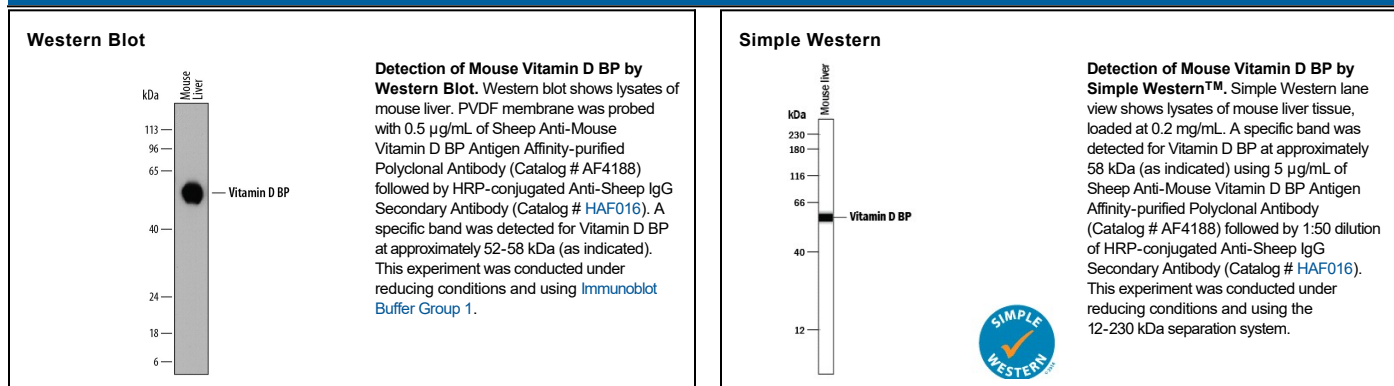
<b>Species Reactivity</b>	Mouse
<b>Specificity</b>	Detects mouse Vitamin D BP in direct ELISAs and Western blots. In direct ELISAs, approximately 15% cross-reactivity with recombinant human Vitamin D BP is observed.
<b>Source</b>	Polyclonal Sheep IgG
<b>Purification</b>	Antigen Affinity-purified
<b>Immunogen</b>	Mouse myeloma cell line NS0-derived recombinant mouse Vitamin D BP Leu17-Ser476 Accession # P21614
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

## 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.

	<b>Recommended Concentration</b>	<b>Sample</b>
<b>Western Blot</b>	0.5 µg/mL	See Below
<b>Simple Western</b>	5 µg/mL	See Below

## DATA



## PREPARATION AND STORAGE

<b>Reconstitution</b>	Reconstitute at 0.2 mg/mL in sterile PBS.
<b>Shipping</b>	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
<b>Stability &amp; Storage</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <li>• 12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>• 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>• 6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>

## 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.