

**DESCRIPTION**

<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human Latent TGF- $\beta$ bp2/LTBP-2 in direct ELISAs and Western blots. In direct ELISAs and Western blots, no cross-reactivity with recombinant mouse LTBP-4 is observed.
<b>Source</b>	Monoclonal Mouse IgG <sub>2B</sub> Clone # 327318
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	Mouse myeloma cell line NS0-derived recombinant human Latent TGF- $\beta$ bp2/LTBP-2 Gln36-Glu1821 Accession # NP_000419
<b>Formulation</b>	Lyophilized from a 0.2 $\mu$ m 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 $\mu$ m 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>	1 $\mu$ g/mL	Recombinant Human Latent TGF- $\beta$ bp2 under non-reducing conditions only

**PREPARATION AND STORAGE**

<b>Reconstitution</b>	Reconstitute at 0.5 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**

LTBP-2 is a 240 kDa member of the LTBP and fibrillin families. Unlike other LTBP, LTBP-2 is not a component of the large latent TGF- $\beta$  complex. LTBP-2 is a secreted calcium-binding extracellular matrix glycoprotein of elastic tissue 10 nm microfibrils, especially in the lung. The 1786 aa mature human LTBP2 contains 20 EGF-like domains and four 8-cysteine repeats and shares 80% aa identity with mouse LTBP-2. An RGD sequence and a proline-rich sequence may mediate adhesion of melanoma cells, but for fibroblasts LTBP-2 may actually be an antiadhesion protein. *In vivo*, proteolysis by plasmin and elastase is likely and may cleave putative adhesion sites.