

DESCRIPTION

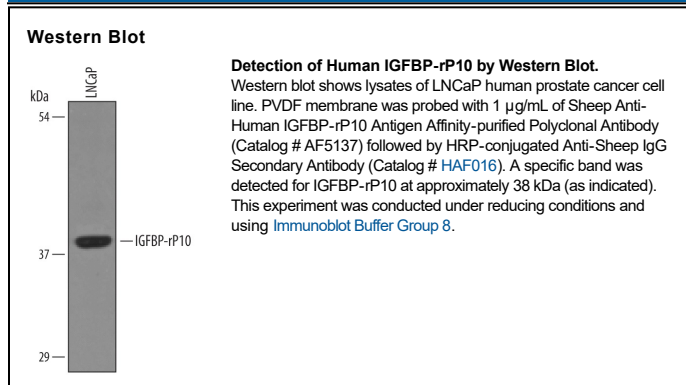
Species Reactivity	Human
Specificity	Detects human IGFBP-rP10 in direct ELISAs and Western blots. In direct ELISAs, approximately 10% cross-reactivity with recombinant mouse IGFBP-rP10 is observed.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant human IGFBP-rP10 isoform 1 Arg31-Tyr304 Accession # Q96I82
Formulation	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.

	Recommended Concentration	Sample
Western Blot	1 µg/mL	See Below

DATA



PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	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
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

IGFBP-rP10 (IGF binding protein-related protein 10; also Kazal-type serine protease inhibitor domain-contain protein 1 and BONO1) is a 37 kDa (predicted), secreted member of the IGFBP superfamily. It is expressed by osteoblasts and odontoblasts, is associated with regions of mineralization, and stimulates the proliferation of osteoblasts *in vitro*. Mature human IGFBP-rP10 is 274 amino acids (aa) in length. It contains an IGF binding domain (aa 49-124), a follistatin-like serine protease inhibitor region (aa 125-168) and a C2-type Ig-like domain (aa 172-269). There is one splice variant that shows a 70 aa substitution for aa 184-304. Mature human IGFBP-rP10 is 87% aa identical to mouse IGFBP-rP10.