

## DESCRIPTION

|                           |                                                                                                                                                                                                                                                                             |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species Reactivity</b> | Human                                                                                                                                                                                                                                                                       |
| <b>Specificity</b>        | Detects human IGFBP-rP10 in direct ELISAs and Western blots. In direct ELISAs, approximately 10% cross-reactivity with recombinant mouse IGFBP-rP10 is observed.                                                                                                            |
| <b>Source</b>             | Polyclonal Sheep IgG                                                                                                                                                                                                                                                        |
| <b>Purification</b>       | Antigen Affinity-purified                                                                                                                                                                                                                                                   |
| <b>Immunogen</b>          | Mouse myeloma cell line NS0-derived recombinant human IGFBP-rP10 isoform 1<br>Arg31-Tyr304<br>Accession # Q96I82                                                                                                                                                            |
| <b>Conjugate</b>          | Alexa Fluor 647<br>Excitation Wavelength: 650 nm<br>Emission Wavelength: 668 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

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.

## PRODUCT SPECIFIC NOTICES

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