

#### DESCRIPTION

|                           |                                                                                                                                                                                                                                                                             |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species Reactivity</b> | Human                                                                                                                                                                                                                                                                       |
| <b>Specificity</b>        | Detects human LAP (TGF- $\beta$ 1) in direct ELISAs.                                                                                                                                                                                                                        |
| <b>Source</b>             | Monoclonal Mouse IgG <sub>2B</sub> Clone # 1015016                                                                                                                                                                                                                          |
| <b>Purification</b>       | Protein A or G purified from cell culture supernatant                                                                                                                                                                                                                       |
| <b>Immunogen</b>          | Chinese hamster ovary cell line CHO-derived recombinant human LAP (TGF- $\beta$ 1)<br>Met1-Ser390<br>Accession # P01137                                                                                                                                                     |
| <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.

**ELISA** Optimal dilution of this antibody should be experimentally determined.

#### PREPARATION AND STORAGE

|                                |                                                                                                                   |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------|
| <b>Shipping</b>                | The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below. |
| <b>Stability &amp; Storage</b> | Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied                          |

#### BACKGROUND

The TGF- $\beta$  family includes several related proteins (70-80% sequence homology) from mammalian, avian, or *Xenopus* systems that are now designated TGF- $\beta$ 1, TGF- $\beta$ 2, TGF- $\beta$ 1.2, TGF- $\beta$ 3, TGF- $\beta$ 4, and TGF- $\beta$ 5. These proteins are secreted by cells in the form of an inactive complex, referred to as latent TGF- $\beta$ , that consists of TGF- $\beta$  associated non-covalently with a Latency-associated peptide (LAP). These two proteins are synthesized as a single pro-peptide that is cleaved in a post Golgi compartment prior to secretion. Different TGF- $\beta$  family members are naturally associated with their own distinct LAPs.

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