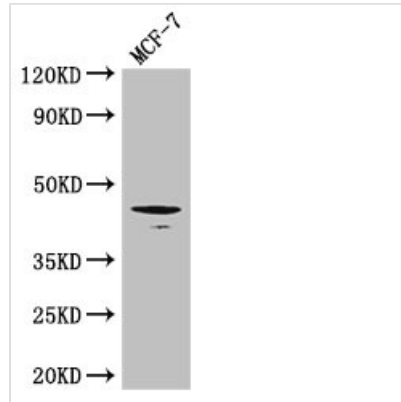




# Tgfb1 Antibody

<b>Product Code</b>	CSB-PA023446LA01MO
<b>Abbreviation</b>	Transforming growth factor beta-1
<b>Storage</b>	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
<b>Uniprot No.</b>	P04202
<b>Immunogen</b>	Recombinant Mouse Transforming growth factor beta-1 protein (30-278AA)
<b>Raised In</b>	Rabbit
<b>Species Reactivity</b>	Mouse, Human
<b>Tested Applications</b>	ELISA, WB, IP; Recommended dilution: WB:1:500-1:5000, IP:1:200-1:2000
<b>Relevance</b>	Multifunctional protein that controls proliferation, differentiation and other functions in many cell types. Many cells synthesize TGFB1 and have specific receptors for it. It positively and negatively regulates many other growth factors. It plays an important role in bone remodeling as it is a potent stimulator of osteoblastic bone formation, causing chemotaxis, proliferation and differentiation in committed osteoblasts. Can promote either T-helper 17 cells (Th17) or regulatory T-cells (Treg) lineage differentiation in a concentration-dependent manner. At high concentrations, leads to FOXP3-mediated suppression of RORC and down-regulation of IL-17 expression, favoring Treg cell development. At low concentrations in concert with IL-6 and IL-21, leads to expression of the IL-17 and IL-23 receptors, favoring differentiation to Th17 cells (PubMed:18368049). Mediates SMAD2/3 activation by inducing its phosphorylation and subsequent translocation to the nucleus. Can induce epithelial-to-mesenchymal transition (EMT) and cell migration in various cell types (By similarity).
<b>Form</b>	Liquid
<b>Conjugate</b>	Non-conjugated
<b>Storage Buffer</b>	Preservative: 0.03% Proclin 300 Constituents: 50% Glycerol, 0.01M PBS, PH 7.4
<b>Purification Method</b>	>95%, Protein G purified
<b>Isotype</b>	IgG
<b>Clonality</b>	Polyclonal
<b>Alias</b>	Transforming growth factor beta-1 (TGF-beta-1) [Cleaved into: Latency-associated peptide (LAP)], Tgfb1
<b>Immunogen Species</b>	Mus musculus (Mouse)
<b>Research Area</b>	Cardiovascular
<b>Target Names</b>	Tgfb1
<b>Image</b>	


**Western Blot**

Positive WB detected in: MCF-7 whole cell lysate

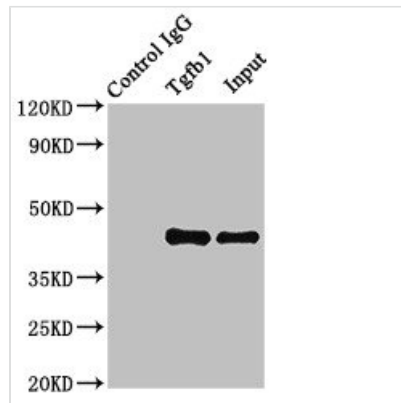
All lanes: Tgfb1 antibody at 3 $\mu$ g/ml

Secondary

Goat polyclonal to rabbit IgG at 1/50000 dilution

Predicted band size: 45 kDa

Observed band size: 45 kDa


**Immunoprecipitating Tgfb1 in MCF-7 whole cell lysate**

Lane 1: Rabbit control IgG instead of (1 $\mu$ g) instead of CSB-PA023446LA01MO in MCF-7 whole cell lysate. For western blotting, a HRP-conjugated Protein G antibody was used as the secondary antibody (1/2000)

Lane 2: CSB-PA023446LA01MO (8 $\mu$ g) + MCF-7 whole cell lysate (500 $\mu$ g)

Lane 3: MCF-7 whole cell lysate (10 $\mu$ g)