TL1A (TNFSF15, Tumor Necrosis Factor Ligand Superfamily Member 15)

Catalog number

T8038-05B

Supplier

United States Biological

TL1A is also known as tumor necrosis factor ligand superfamily member 15 (TNFSF15). TL1A acts as a co-stimulator of IFN-gamma secretion through binding to DR3 (death domain receptor 3 or TRAMP) and may play an important role in Th1-mediated diseases such as Crohn's disease. In cells expressing DR3, TL1A induces NF-kappa-B activation and apoptosis. Decoy receptor 3 (DcR3) is also a receptor for TL1A. DcR3 can apparently neutralise the effect of TL1A, by inhibiting the TL1A-DR3 interaction, thereby inhibiting apoptosis. TL1A is specifically expressed on endothelial cells and is detected on monocytes, placenta, lung, liver, kidney, skeletal muscle, pancreas, spleen, prostate, small intestine and colon.

Applications:
Suitable for use in Western Blot. Other applications not tested.

Recommended Dilution

Western Blot: 0.5-1.0ug/ml detects a band at ~27kD in PC-3 cell lysates
Optimal dilutions to be determined by the researcher.

Recommended Secondary Antibodies

I1904-39: IgG, X-Adsorbed (HRP) Pab Gt xRb
I1904-40A: IgG, H&L, X-Adsorbed (HRP) Pab Gt xRb I1904-46Q: IgG, H&L (HRP) Pab Gt xRb

Storage and Stability

May be stored at 4°C for short-term only. Aliquot to avoid repeated freezing and thawing. Store at -20°C. Aliquots are stable for at least 12 months. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.

Immunogen

Synthetic peptide corresponding to 14aa near the amino terminus of human TL1A.

Formulation

Supplied as a liquid in PBS, 0.02% sodium azide.

Purity

Purified by immunoaffinity chromatography.

Specificity

Recognizes the amino terminal of human TL1A. Species Crossreactivity: mouse, rat.

Product Type

Pab

Source

human

Isotype

IgG

Grade

Affinity Purified

Applications

WB

Crossreactivity

Hu Mo Rt

Storage

-20°C

MW

27

Reference

1. Wen, L. et al. (2003) TL1A-induced NF-kappaB activation and c-IAP2 production prevent DR3-mediated apoptosis in TF-1 cells. J. Biol. Chem. 278: 39251-39258 2. Bamias, G et al. (2003) Expression, localization, and functional activity of TL1A, a novel Th1-polarizing cytokine in inflammatory bowel disease. J. Immunol. 171: 4868-4874 3. Yang, C. R. et al. (2004) Soluble decoy receptor 3 induces angiogenesis by neutralization of TL1A, a cytokine belonging to tumor necrosis factor superfamily and exhibiting angiostatic action. Cancer Res. 64: 1122-1129