

TACI Antibody

Catalog # ASC10130

Product Information

Application	WB, ICC, E
Primary Accession	O14836
Other Accession	NP_036584 , 6912694
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	31816
Conjugate	Unconjugated
Application Notes	TACI polyclonal antibody can be used for detection of TACI by Western blot at 5 µg/mL. Antibody can also be used for immunocytochemistry starting at 2 µg/mL.

Additional Information

Gene ID	23495
Other Names	TACI Antibody; CVID, RYZN, TACI, CD267, CVID2, TNFRSF14B, Tumor necrosis factor receptor superfamily member 13B, Transmembrane activator and CAML interactor, tumor necrosis factor receptor superfamily, member 13B
Target/Specificity	TNFRSF13B;
Reconstitution & Storage	TACI antibody can be stored at 4°C for three months and -20°C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Precautions	TACI Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	TNFRSF13B
Synonyms	TACI
Function	Receptor for TNFSF13/APRIL and TNFSF13B/TALL1/BAFF/BLYS that binds both ligands with similar high affinity. Mediates calcineurin- dependent activation of NF-AT, as well as activation of NF-kappa-B and AP-1. Involved in the stimulation of B- and T-cell function and the regulation of humoral immunity.
Cellular Location	Membrane; Single-pass type III membrane protein.

Tissue Location

Highly expressed in spleen, thymus, small intestine and peripheral blood leukocytes. Expressed in resting B-cells and activated T-cells, but not in resting T-cells

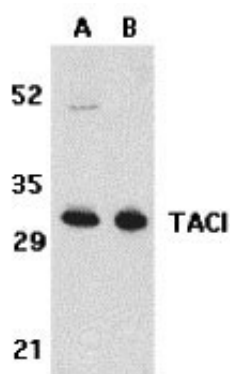
Background

TACI Antibody: Members in the TNF superfamily regulate immune responses and induce apoptosis. Two novel members in the TNF family were recently identified and designated BAFF/BLyS/TALL-1/THANK/zTNF4 and April/TALL-2, respectively. BAFF was characterized as a B cell activator since it induced B cell proliferation and immunoglobulin secretion. April regulates immunological and non-immunological cell growth. Three receptors, BCMA, TACI, and BAFF-R, for BAFF and April were recently identified. TACI, like BCMA, binds BAFF and April. TACI and its ligands regulate humoral immune responses, activate NF- κ B and c-jun N-terminal kinase, and are involved in B cell associated autoimmune diseases.

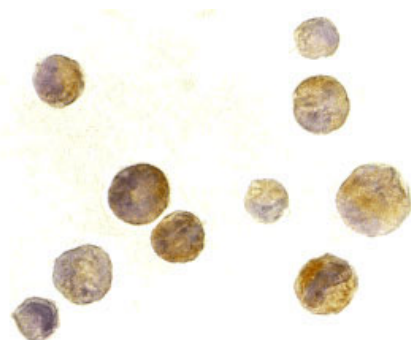
References

Moore PA, Belvedere O, Orr A, et al. BLyS: member of the tumor necrosis factor family and B lymphocyte stimulator. *Science* 1999;285:260-3
Schneider P, MacKay F, Steiner V, et al. BAFF, a novel ligand of the tumor necrosis factor family, stimulates B cell growth. *J Exp Med* 1999;189:1747-56
Shu HB, Hu WH, Johnson H. TALL-1 is a novel member of the TNF family that is down-regulated by mitogens. *J Leukoc Biol* 1999;65:680-3
Mukhopadhyay A, Ni J, Zhai Y, Yu GL, Aggarwal BB. Identification and characterization of a novel cytokine, THANK, a TNF homologue that activates apoptosis, nuclear factor- κ B, and c-Jun NH2-terminal kinase. *J Biol Chem* 1999 ;274:15978-81

Images



Western blot analysis of TACI in K562 (A) and U937 (B) cell lysates with TACI antibody at 5 μ g/mL.



Immunocytochemistry of TACI in K562 cells with TACI antibody at 2 μ g/mL.