



Rat anti Mouse TNFSF12 monoclonal antibody, clone 290914 (CABT-L330)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Specificity	Detects mouse TWEAK/TNFSF12 in ELISAs. In sandwich ELISAs, approximately 5% cross-reactivity with recombinant human TWEAK is observed and no cross-reactivity with recombinant mouse (rm) BAFF, rmFas Ligand, rmOX40, or rmTNF-alpha is observed.
Target	TWEAK/TNFSF12
Immunogen	E. coli-derived recombinant mouse TWEAK/TNFSF12 Arg105-His249, Accession #O54907.2
Isotype	IgG2A
Source/Host	Rat
Species Reactivity	Mouse
Clone	290914
Purification	Protein A or G purified from hybridoma culture supernatant
Conjugate	Unconjugated
Applications	ELISA(Cap)
Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
Format	Lyophilized; Small package size(SP): Liquid
Size	25 µg, 500 µg
Buffer	PBS with Trehalose
Preservative	None

Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 °C as supplied. 1 month, 2 to 8 °C under sterile conditions after reconstitution. 6 months, -20 to -70 °C under sterile conditions after reconstitution.
Ship	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C.

BACKGROUND

Introduction	<p>TNF-related weak inducer of apoptosis (TWEAK) is a type II transmembrane protein belonging to the TNF superfamily and has been designated TNFSF12. Mouse TWEAK is a 249 amino acid (aa) protein with an N-terminal 21 aa cytoplasmic domain, a 21 aa transmembrane region and a 204 aa C-terminal extracellular domain. Human and mouse TWEAK share 88% amino acid sequence identity within the extracellular domain. A soluble form of TWEAK is generated from the membrane-associated molecules by proteolytic cleavage suggesting that TWEAK may have long-range effects. TWEAK is expressed widely in many tissues and cells. Although TWEAK has been proposed as a ligand that signals through the death domain receptor 3 (DR3), a TNF receptor superfamily member currently designated TNFRSF25, subsequent studies did not demonstrate binding of TWEAK to cell lines that express DR3. In cells that lack DR3, TWEAK has been shown to bind TWEAK receptor (TWEAK R), a novel TNF receptor superfamily member designated TNFRSF12A. TWEAK R, also known as fibroblast growth factor-inducible 14 (Fn14), is a growth factor-inducible immediate-early response gene that is expressed in fibroblasts, hepatocellular carcinomas and endothelial cells. TWEAK-TWEAK R interaction has been shown to promote NF-kappa B activation and mediate multiple cell death pathways. On endothelial cells, TWEAK R plays a role in endothelial cell growth and migration. This effect of TWEAK is not due to upregulation of VEGF.</p>
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Keywords	APO3 ligand;APO3LMGC20669;DR3LGTWEAKAPO3/DR3 ligand;MGC129581;TNF-related weak inducer of apoptosis;TNFSF12;tumor necrosis factor (ligand) superfamily; member 12;tumor necrosis factor ligand superfamily member 12;TWEAK
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GENE INFORMATION

Entrez Gene ID	21944
UniProt ID	O54907