

Anti-TNF-alpha Reference Antibody (Ozoralizumab)

Catalog # APR11597

Product Information

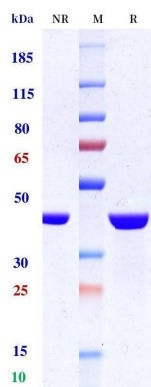
Application	Functional assay, Kinetics (SPR), Kinetics (BLI), FACS, E, FTA
Primary Accession	P01375
Reactivity	Human
Clonality	Bispecific
Isotype	VHH-VHH
Calculated MW	25644

Additional Information

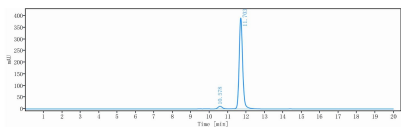
Target/Specificity	TNFSF2 / TNFa
Expression system	CHO

Protein Information

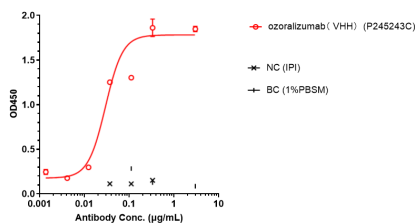
Name	TNF
Synonyms	TNFA, TNFSF2
Function	Cytokine that binds to TNFRSF1A/TNFR1 and TNFRSF1B/TNFR. It is mainly secreted by macrophages and can induce cell death of certain tumor cell lines. It is potent pyrogen causing fever by direct action or by stimulation of interleukin-1 secretion and is implicated in the induction of cachexia. Under certain conditions it can stimulate cell proliferation and induce cell differentiation. Impairs regulatory T- cells (Treg) function in individuals with rheumatoid arthritis via FOXP3 dephosphorylation. Up-regulates the expression of protein phosphatase 1 (PP1), which dephosphorylates the key 'Ser-418' residue of FOXP3, thereby inactivating FOXP3 and rendering Treg cells functionally defective (PubMed:23396208). Key mediator of cell death in the anticancer action of BCG-stimulated neutrophils in combination with DIABLO/SMAC mimetic in the RT4v6 bladder cancer cell line (PubMed:16829952, PubMed:22517918, PubMed:23396208). Induces insulin resistance in adipocytes via inhibition of insulin-induced IRS1 tyrosine phosphorylation and insulin-induced glucose uptake. Induces GKAP42 protein degradation in adipocytes which is partially responsible for TNF-induced insulin resistance (By similarity). Plays a role in angiogenesis by inducing VEGF production synergistically with IL1B and IL6 (PubMed:12794819). Promotes osteoclastogenesis and therefore mediates bone resorption (By similarity).
Cellular Location	Cell membrane; Single-pass type II membrane protein [Tumor necrosis factor, soluble form]; Secreted [C-domain 2]; Secreted.



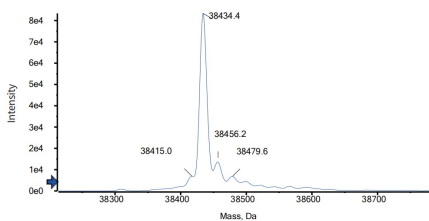
Anti-TNF-alpha Reference Antibody (Ozoralizumab) on SDS-PAGE under reducing (R) condition. The purity of the protein is greater than 95%.



Anti-TNF-alpha Reference Antibody (Ozoralizumab) is 96.3%, determined by SEC-HPLC.



Ozoralizumab bound to TNFSF2/TNF-alpha protein, and then rebounded to secondary antibodies(Anti-Cameild-VHH1+VHH2-HRP), and read OD450. As shown in fig, Ozoralizumab bound human TNFSF2/TNF-alpha Protein-Fc, and the EC50 was 0.02958 nM.



The detected molecular weight of Anti-TNF-alpha Reference Antibody (Ozoralizumab) is 38.43 kDa.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.