

Anti-TNFSF2 / TNFa Reference Antibody (ESBA 105)

Recombinant Antibody

Catalog # APR11060

Product Information

| | |
|--------------------------|----------------------------|
| Application | FC, Kinetics, Animal Model |
| Primary Accession | P01375 |
| Reactivity | Human |
| Clonality | Monoclonal |
| Isotype | IgG1 |
| Calculated MW | 25644 |

Additional Information

| | |
|---------------------------|--|
| Target/Specificity | TNFSF2 / TNFa |
| Endotoxin | |
| Conjugation | Unconjugated |
| Expression system | CHO Cell |
| Format | Purified monoclonal antibody supplied in PBS, pH6.0, without preservative. This antibody is purified through a protein A column. |

Protein Information

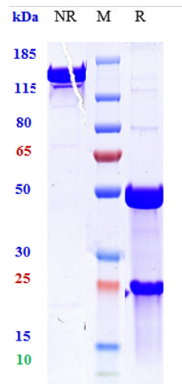
| | |
|-----------------|--|
| Name | TNF |
| Synonyms | TNFA, TNFSF2 |
| Function | Cytokine that binds to TNFRSF1A/TNFR1 and TNFRSF1B/TNFR. It is mainly secreted by macrophages and can induce cell death of certain tumor cell lines. It is potent pyrogen causing fever by direct action or by stimulation 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).

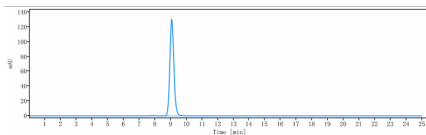
Cellular Location

Cell membrane; Single-pass type II membrane protein [Tumor necrosis factor, soluble form]; Secreted [C-domain 2]; Secreted.

Images



Anti-TNFSF2 / TNFa Reference Antibody (ESBA 105) on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%



The purity of Anti-TNFSF2 / TNFa Reference Antibody (ESBA 105) is more than 95% ,determined by SEC-HPLC.

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