CD120b (TNF Receptor II) Monoclonal Antibody (TR75-54), eBioscience™

Product Details	
Size	50 µg
Species Reactivity	Mouse
Published Species	Mouse
Host/Isotype	Armenian hamster / IgG
Class	Monoclonal
Type	Antibody
Clone	TR75-54
Conjugate	Unconjugated
Form	Liquid
Concentration	0.5 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	4° C
RRID	AB_1257205

Applications	Tested Dilution	Publications
Western Blot (WB)	Assay-Dependent	-
Flow Cytometry (Flow)	Assay-Dependent	2 Publications
ELISA (ELISA)	1-4 µg/mL	-
Immunoprecipitation (IP)	Assay-Dependent	-
Neutralization (Neu)	-	2 Publications
Functional Assay (FN)	Assay-Dependent	-

Product Specific Information

Description: The TR75-54 monoclonal antibody reacts with mouse Tumor Necrosis Factor Receptor II (TNFRII, TNFR-p80, TNFRSF1B, CD120b). TNFRII is expressed in a variety of cell types and strongly expressed on stimulated T and B lymphocytes. TNFRII is the main TNF receptor found on circulating T cells and is the major mediator of autoregulatory apoptosis in CD8+ cells. The soluble TNF receptors are truncated forms of cell surface receptors with neutralizing activity on both TNF-alpha and TNF-beta. It has been suggested that the proinflammatory and immunosuppressive properties of TNF segregate at the level of its receptors and that the pool of TNF bound to soluble receptors could represent a reservoir to control the TNF release.

Applications Reported: This TR75-54 antibody has been reported for use in flow cytometric analysis, immunoprecipitation, immunoblotting (WB), and ELISA.

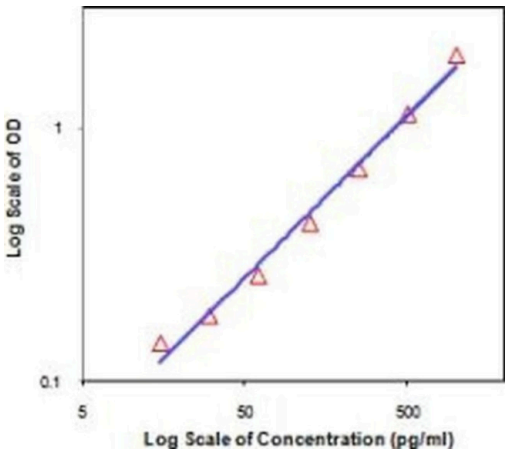
Applications Tested: The TR75-54 antibody has been tested as the capture antibody in a sandwich ELISA for analysis of mouse TNFRII in combination with the biotin TR75-32 (Product # 13-1204) antibody for detection and recombinant mouse TNFRII as the standard. A suitable range of concentrations of this antibody for ELISA capture is 1-4 µg/mL. A standard curve consisting of doubling dilutions of the recombinant standard over the range of 1000 pg/mL - 8 pg/mL should be included in each ELISA plate.

Purity: Greater than 90%, as determined by SDS-PAGE.

Aggregation: Less than 10%, as determined by HPLC.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For CD120b (TNF Receptor II) Monoclonal Antibody (TR75-54), eBioscience™



CD120b (TNF Receptor II) Antibody (14-1203-81) in ELISA
Standard curve of Mouse CD120b (TNF Receptor II) ELISA.

4 References

Flow Cytometry (2)

Nature communications

Effector lymphocyte-induced lymph node-like vasculature enables naive T-cell entry into tumours and enhanced anti-tumour immunity.

"14120381 was used in flow cytometry to find that lymph node-like vasculature in melanoma and lung carcinoma murine models is both a consequence of and key contributor to anti-tumor immunity"

Authors: Peske JD,Thompson ED,Gemta L,Baylis RA,Fu YX,Engelhard VH

Year
2015

Species
Mouse

Nature immunology

Costimulation via the tumor-necrosis factor receptor superfamily couples TCR signal strength to the thymic differentiation of regulatory T cells.

"14-1203 was used in Flow cytometry/Cell sorting to study the role of TNF receptors in the thymic development of Treg cells.."

Authors: Mahmud SA,Manlove LS,Schmitz HM,Xing Y,Wang Y,Owen DL,Schenkel JM,Boomer JS,Green JM,Yagita H,Chi H,Hogquist KA,Farrar MA

Year
2014

Species
Mouse

Neutralization (2)

Annals of neurology

Neuronal TNF, Not -Syn, Underlies PDD-Like Disease Progression in IFN-KO Mice.

"Published figure using CD120b (TNF Receptor II) monoclonal antibody (Product # 14-1203-81) in Neutralization"

Authors: Villanueva EB,Tresse E,Liu Y,Duarte JN,Jimenez-Duran G,Ejlerskov P,Kretz O,Loreth D,Goldmann T,Prinz M,Issazadeh-Navikas S

Year
2021

JCI insight

Preferential TNF signaling via TNFR2 regulates epithelial injury and duct obstruction in experimental biliary atresia.

"14-1203-81 was used in Neutralization to determine factors regulating the pathogenic mechanisms of biliary atresia."

Authors: Shivakumar P,Mizuochi T,Mourya R,Gutta S,Yang L,Luo Z,Bezerra JA

Year
2017

Species
Mouse