

# TNF alpha Monoclonal Antibody (2TNF-H34A)

## Product Details

Size	500 µg
Species Reactivity	Human
Published Species	Human
Host/Isotype	Mouse / IgG1, kappa
Class	Monoclonal
Type	Antibody
Clone	2TNF-H34A
Conjugate	Unconjugated
Immunogen	Recombinant human TNF alpha
Form	Liquid
Concentration	1.0 mg/mL
Purification	Protein G
Storage buffer	PBS
Contains	no preservative
Storage conditions	-20°C
RRID	AB_223562

Applications	Tested Dilution	Publications
Western Blot (WB)	Assay-dependent	-
ELISA (ELISA)	1:25-1:3200	16 Publications
Miscellaneous PubMed (Misc)	-	1 Publication

## Product Specific Information

M303 targets TNF Alpha in ELISA, and WB applications and shows reactivity with Human samples. The M303 antibody (clone 2TNF-H34A) has successfully been paired as the coating antibody in a sandwich ELISA with detection antibody M302B (biotinylated conjugate of clone 2TNF-H33).

The M303 immunogen is recombinant human TNF alpha.

M303 detects TNF Alpha which has a predicted molecular weight of approximately 26 kDa.

The M303 TNFa antibody (clone 2TNF-H34A) has successfully been paired as the coating antibody in a sandwich ELISA with detection antibody M302B (biotinylated conjugate of clone 2TNF-H33) Typical dilutions for sandwich ELISA include 1 µg/mL for coating and 0.125 - 0.25 µg/mL for detection.

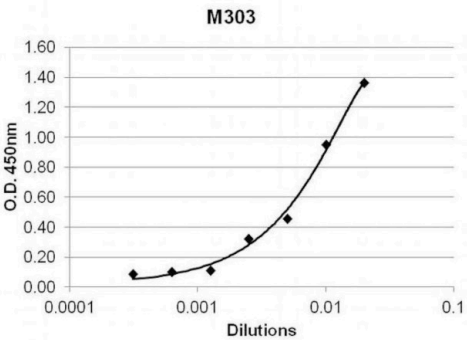
Antibody M303 (clone 2TNF-H34A) and biotinylated antibody M302B (clone 2TNF-H33) have successfully been used in combination with recombinant TNFa protein STNFA in ELISA applications.

This product has been tested for endotoxins by limulus amoebocyte lysate (LAL) assay and contains an endotoxin concentration of less than or equal to 10 endotoxin units per milligram (EU/mg).

Product Images For TNF alpha Monoclonal Antibody (2TNF-H34A)

TNF alpha Antibody (M303) in ELISA

Direct ELISA analysis of TNF alpha was performed by coating wells of a 96-well plate with 100 µL per well of human recombinant protein TNF alpha (Product # RTNFAI) diluted in carbonate/bicarbonate buffer (Product # 28382) at a concentration of 1 µg/mL overnight at 4C. Wells of the plate were washed, blocked with starting blocking buffer (Product # 37538), and incubated with 100 µL per well of a mouse anti-TNF alpha monoclonal antibody (Product # M303) at a dilution of 1:50, 1:100, 1:200, 1:400, 1:800, 1:1600 and 1:3200 for 90 minutes at 37C. The plate was washed, then incubated with 100 µL per well of a HRP-conjugated goat anti-mouse IgG secondary antibody (Product # 62-6520) at a dilution of 1:2000 for 90 minutes at 37C. Detection was performed using 1-Step Ultra TMB substrate (Product # 34028) for 5-10 minutes at room temperature in the dark. The reaction was stopped with Stop solution (Product # N600), and absorbances were read on a spectrophotometer at 450-550 nm.



17 References

ELISA (16)

<p>Clinical and vaccine immunology : CVI</p> <p><b>Reduced frequency of a CD14+ CD16+ monocyte subset with high Toll-like receptor 4 expression in cord blood compared to adult blood contributes to lipopolysaccharide hyporesponsiveness in newborns.</b></p> <p>"M303 was used in an ELISA assay to suggest that a reduced CD14(+) CD16(+) activated/differentiated monocyte subset and a correspondingly lower level of functional TLR4 on monocytes contributes to the relatively low TNF-response to LPS observed in immunologically naive newborns compared to the response in adults."</p> <p>Authors: Pedraza-Sánchez S,Hise AG,Ramachandra L,Arechaveleta-Velasco F,King CL</p>	<p>Year 2013</p> <p>Species Human</p>
<p>Clinical and vaccine immunology : CVI</p> <p><b>Cytokines across the night in chronic fatigue syndrome with and without fibromyalgia.</b></p> <p>"M303 was used in ELISA to study the temporal cytokine profiles in chronic fatigue syndrome with and without fibromyalgia during sleep"</p> <p>Authors: Nakamura T,Schwander SK,Donnelly R,Ortega F,Togo F,Broderick G,Yamamoto Y,Cherniack NS,Rapoport D,Natelson BH</p>	<p>Year 2010</p> <p>Species Human</p>

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Miscellaneous PubMed (1)

<p>Journal of immunology (Baltimore, Md. : 1950)</p> <p><b>Protein kinase c regulates the expression of complement receptor Ig in human monocyte-derived macrophages.</b></p> <p>"M303 was used in blocking or activating experiment to examine the role of PKCalpha in CRIg expression in human monocyte-derived macrophages"</p> <p>Authors: Ma Y,Usuwanthim K,Munawara U,Quach A,Gorgani NN,Abbott CA,Hii CS,Ferrante A</p>	<p>Year 2015</p> <p>Species Human</p>
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