Antibody Validation Report

aVR.TNF.P01375.AB 2889388.v1.0 (March 25 2021)

A. Basic Target Information

Target Information

UniProt Accession Number: P01375

Target Name: Tumor necrosis factor

Antibody Information RRID: AB 2889388

Antibody Name: Recombinant Anti-TNF alpha antibody [EPR19147]

Host Organism: Rabbit

Clonality: Monoclonal Vendor: AbCam

Catalog Number: ab183218 Lot Number: GR3341243-4 Recombinant (Y/N): Yes

Organ/Tissue used for validation: THP-1

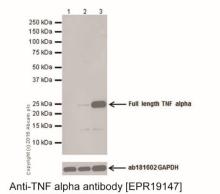
HuBMAP Platform Used: IP-MS

Protocols.io doi for Validation Protocol: 10.17504/protocols.io.btzqnp5w

ORCID ID of submitter: 0000-0002-6095-2797

B. <u>Validation Data</u>

B.1. Vendor Validation: IP, WB, IF



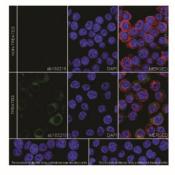
(ab183218), 1/2000 dilution

Lane 1: TPA pretreated THP-1 Lane 2: TPA pretreated THP-1 treated with

100 ng/ml LPS for 7 hours Lane 3: TPA pretreated THP-1 treated with 100 ng/ml LPS for 4 hours and 1 µg/ml BFA

for 3 hours

Secondary: Goat Anti-Rabbit IgG H&L (HRP) (ab97051),1/100000 dilution



RAW264.7 treated with 100ng/ml LPS for 7 h and 1µg/ml BFA for the last 3h Primary Antibody: anti- TNF alpha (Abacm ab183218), 1/5000 dilution (0.09 µg/ml).

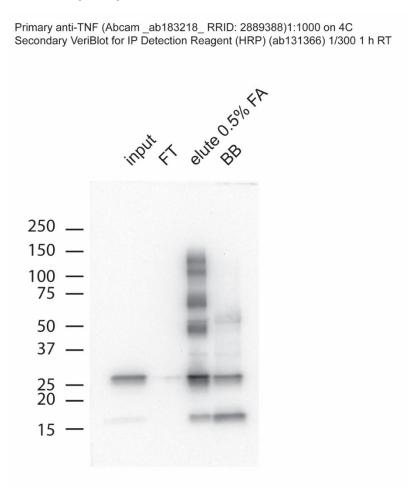
Secondary Antibody: Goat anti rabbit IgG (Alexa Fluor® 488, ab150077), 1/1000 dilution (2 µg/ml)

Date Accessed: 03/25/21

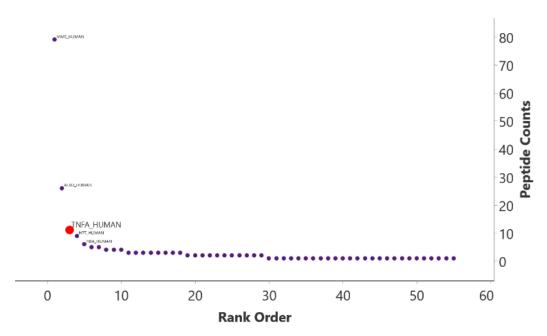
URL: https://www.abcam.com/tnf-alpha-antibody-epr19147-ab183218.html

B.2. Laboratory Validation:

Immunoprecipitation/Western Blot



Immunoprecipitation/Bottom-Up MS



Immunoprecipitation/Top-Down MS

Proteoforms Identified:

1: PFR00005931241, Palmitoylated TNF alpha, 25,775.55 Da [MOD:00394]-

STESMIRDVELAEEALPKKTGGPQGSRRC[MOD:00440]LFLSLFSFLIVAGATTLFCLLHFGVIGPQREEFPRDL SLISPLAQAVRSSSRTPSDKPVAHVVANPQAEGQLQWLNRRANALLANGVELRDNQLVVPSEGLYLIYSQVLF KGQGC[MOD:00798]PSTHVLLTHTISRIAVSYQTKVNLLSAIKSP[MOD:00798]CQRETPEGAEAKPWYEPIY LGGVFQLEKGDRLSAEINRPDYLDFAESGQVYFGIIAL

