



Datasheet for ABIN6135887 anti-NF-kB p65 antibody



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Overview

Quantity:	100 µL
Target:	NF-kB p65 (NFkBp65)
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This NF-kB p65 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), Immunoprecipitation (IP)

Product Details

Immunogen:	Recombinant protein of human NF-kB p65
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Characteristics:	Monoclonal Antibodies

Target Details

Target:	NF-kB p65 (NFkBp65)
Alternative Name:	RELA (NFkBp65 Products)
Background:	NF-kappa-B is a ubiquitous transcription factor involved in several biological processes. It is held in the cytoplasm in an inactive state by specific inhibitors. Upon degradation of the inhibitor, NF-kappa-B moves to the nucleus and activates transcription of specific genes. NF-

Target Details

kappa-B is composed of NFKB1 or NFKB2 bound to either REL, RELA, or RELB. The most abundant form of NF-kappa-B is NFKB1 complexed with the product of this gene, RELA. Four transcript variants encoding different isoforms have been found for this gene.,NFKB3,p65,NF-kB p65,RELA,CMCU,Epigenetics & Nuclear Signaling,Transcription Factors,Cancer,Signal Transduction,MAPK-P38 Signaling Pathway,Cell Biology & Developmental Biology,Apoptosis,Inhibition of Apoptosis,Death Receptor Signaling Pathway,Endocrine & Metabolism,Endocrine and metabolic diseases,Obesity,Immunology & Inflammation,B Cell Receptor Signaling Pathway,T Cell Receptor Signaling Pathway,IL-6 Receptor Signaling Pathway,NF-kB Signaling Pathway,Toll-like Receptor Signaling Pathway,Neuroscience,Neurodegenerative Diseases,Amyloid Plaque and Neurofibrillary Tangle Formation in Alzheimer's Disease,Cardiovascular,RELA

Molecular Weight: 58 kDa/59 kDa/60 kDa

Gene ID: 5970

UniProt: [Q04206](#)

Pathways: [NF-kappaB Signaling](#), [RTK Signaling](#), [TCR Signaling](#), [TLR Signaling](#), [Fc-epsilon Receptor Signaling Pathway](#), [Neurotrophin Signaling Pathway](#), [Activation of Innate immune Response](#), [Cellular Response to Molecule of Bacterial Origin](#), [Hepatitis C](#), [Toll-Like Receptors Cascades](#), [S100 Proteins](#)

Application Details

Application Notes: WB,1:500 - 1:2000,IHC,1:50 - 1:200,IF,1:50 - 1:100,IP,1:20 - 1:50

Comment: HIGH QUALITY

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: -20 °C

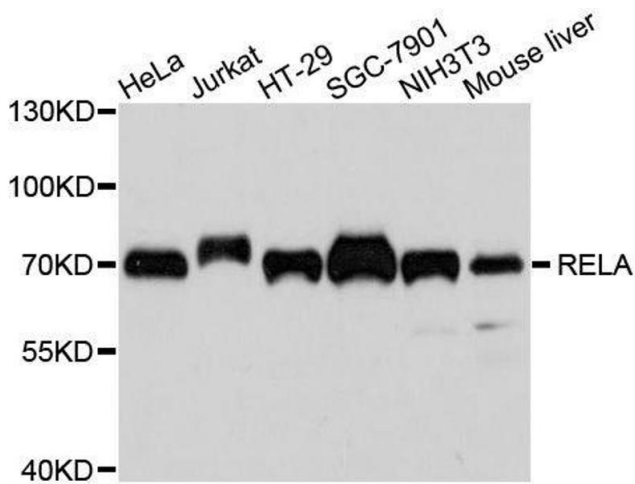
Handling

Storage Comment: Store at -20°C. Avoid freeze / thaw cycles.

Publications

Product cited in: Huang, Han, Sun, Zhao, Liu, Yuan, Mao, Peng, Liu, Yin, He: "Kv1.3 channel blocker (ImKTx88) maintains blood-brain barrier in experimental autoimmune encephalomyelitis." in: **Cell & bioscience**, Vol. 7, pp. 31, (2017) ([PubMed](#)).

Images



Western Blotting

Image 1. Western blot analysis of extracts of various cell lines, using RELA antibody.



Successfully validated (Immunofluorescence (IF))

by [Klinik für Anästhesiologie, Intensivmedizin und Schmerztherapie des Universitätsklinikums Knappschafts Krankenhaus Bochum](#)

Report Number: 104075

Date: Nov 21 2019

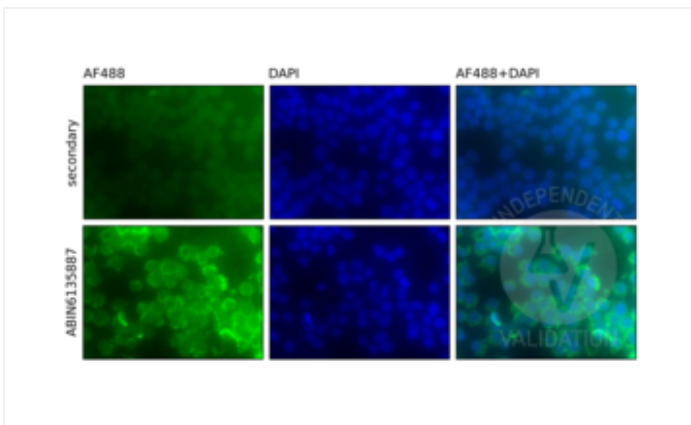
Target:	NfkBP65
Lot Number:	9410609001
Method validated:	Immunofluorescence (IF)
Positive Control:	U-937 human monocytic cell line
Negative Control:	No primary antibody control
Notes:	Passed. ABIN6135887 specifically stains RelA/p65 in U-937 human monocytic cells with antigen retrieval using 1% SDS.
Primary Antibody:	ABIN6135887
Secondary Antibody:	AF488-conjugated AffiniPure alpaca anti-mouse IgG antibody (Jackson Immuno Research, 615-545-214)
Protocol:	<ul style="list-style-type: none">• Grow U-937 cells in RPMI 1640 Medium (Gibco, 21875034) supplemented with 10 % FCS (Gibco, A3840001) and Pen/Strep (Gibco, 15140122), at 37°C and 5% CO₂ in 300µL in 24-well plates (Sarstedt AG&Co. KG).• Use cytopspin to spin cells onto slide.• Fix cells on coverslide in 4% paraformaldehyde (Carl Roth GmbH, 0335.1) for 30min at RT.• Wash cells 3x for 5min with PBS (Sigma-Aldrich, 8537).• Permeabilize cells in 100µL PBS containing 0.1 % Triton X-100 (Sigma-Aldrich, T8787) for 5min at RT.• Wash cells 3x for 5min with PBS.• Permeabilize cells in 100 µL PBS containing 1 % SDS (0183, Carl Roth GmbH) for 5 min at RT.• Wash cells 3x for 5 min with PBS.• Block non-specific binding with 1x Duolink Blocking solution (Sigma-Aldrich, DUO82007) for 30min at RT.• Incubate cells with primary mouse anti-human RelA/p65 antibody (antibodies-online, ABIN6135887, lot 9410609001) diluted 1:100 in 1x Duolink Antibody diluent (Sigma-Aldrich, DUO82008) ON at 4°C.• Wash cells 3x for 5min with PBS.• Incubate cells with secondary AF488-conjugated AffiniPure alpaca anti-mouse IgG antibody (Jackson Immuno Research, 615-545-214) diluted 1:400 in 1x Duolink Antibody diluent for 1h

at RT in the dark.

- Wash cells 2x for 5min with PBS.
- Mount coverslips on glass slides in 50µL ProLong Gold antifade mountant with DAPI (Invitrogen, P36931).
- Image acquisition with an Olympus widefield microscope.

Experimental Notes: Strong green staining dependent on the presence of primary antibody indicates that the antibody works. Negative control lacking the primary antibody shows only background fluorescence. Staining was obtained using antigen retrieval (1% SDS). Without this the antibody did not yield detectable signal.

Image for Validation report #104075



Validation image no. 1 for anti-Nuclear Factor-kB p65 (NFkBp65) antibody (ABIN6135887)

U937 monocytic cells stained with with anti- RelA/p65 antibody ABIN6135887 and an AF488-labeled secondary antibody (bottom row, green). Counterstain with DAPI (blue). Negative control without primary antibody (top row) shows no AF488 signal.