

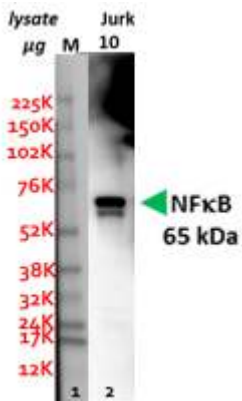
CERTIFICATE OF ANALYSIS – TECHNICAL DATA SHEET

Product name	NF- κ B, Human, clone 14H2		
Catalog number	HM2345		
Lot number	-	Expiry date	-
Volume	0.1 ml	Amount	100 μ g
Formulation	0.2 μ m filtered in PBS+50%glycerol+0.5%BSA+0.02%Na ₃	Concentration	1 mg/ml
Host Species	Mouse IgG1	Conjugate	None
Endotoxin	N.A.	Purification	Affinity
Storage	4°C		

Application notes

	IHC-F	IHC-P	IF	FC	FS	IA	IP	W
Reference #								
Yes	•	•					•	•
No								
N.D.			•	•	•	•		

N.D.= Not Determined; IHC = Immuno histochemistry; F = Frozen sections; P = Paraffin sections; IF = Immuno Fluorescence; FC = Flow Cytometry; FS = Functional Studies; IA = Immuno Assays; IP = Immuno Precipitation; W = Western blot



W: A non-reduced and reduced sample treatment and SDS-Page was used. The band size is 65 kDa.

Dilutions to be used depend on detection system applied. It is recommended that users test the reagent and determine their own optimal dilutions. The typical starting working dilution is 1:50.

- W: A non-reduced and reduced sample treatment and SDS-Page was used. The band size is 65 kDa.

General Information

Description

Mouse monoclonal antibody 14H2 recognizes human Nuclear factor- κ B (NF- κ B)p65, also called RelA-p65. NF- κ B is considered to be one of the main transcription factors driving the expression of genes of inflammatory and immune responses, regulated by a divers panel of modifications to exerts it divers function. Other family members in mammals are RelB, c-Rel, NF- κ B1 and NF- κ B2, the latter two are processed in respectively p105/p50 and p100/p52. NF- κ B functions as a dimer and they all share a Rel homology domain, responsible for DNA binding and dimerization. The activity of NF- κ B is regulated by interaction with a family of inhibitory I κ B proteins. The different NF- κ B complexes have their own individual I κ B proteins. In general NF- κ B is present as I κ B -complex in the cytoplasm. When the inflammatory response is triggered by eg proinflammatory cytokines or LPS, this leads to phosphorylation of I κ B via IKK complex (IKK α , IKK β and NEMO) leading to release of NF- κ B from the complex. Subsequently, NF- κ B enters the nucleus where it activates gene expression. NF- κ B activation consist out of two activation pathways. The canonical pathway is the most common one. In the canonical pathway, I κ B α is phosphorylated in an IKK β - and NEMO-dependent manner, which results in the nuclear translocation of mostly p65-containing heterodimers. In contrast, the non-canonical pathway involves IKK α -mediated phosphorylation of p100 associated with RelB, which leads to partial processing of

p100 and the generation of transcriptionally active p52-RelB complexes. Besides inflammation, auto-immune and metabolic diseases, NF- κ B is involved in tumor development. Related inflammatory diseases are IBD, rheumatoid arthritis, SLE, diabetes, celiac disease, multiple sclerosis and Parkinson's disease.

Immunogen	Synthetic NF- κ B p65 peptide
Aliases	RELA; NFKB3; Transcription factor p65; Nuclear factor NF- κ B p65 subunit; Nuclear factor of kappa light polypeptide gene enhancer in B-cells 3
Cross reactivity	Mouse: Yes; Rat: Yes.
Storage&stability	Product should be stored at 4°C. Under recommended storage conditions, product is stable for at least one year.
Precautions	For research use only. Not for use in or on humans or animals or for diagnostics. It is the responsibility of the user to comply with all local/state and federal rules in the use of this product. Hycult Biotech is not responsible for any patent infringements that might result from the use or derivation of this product.

We hereby certify that the above-stated information is correct and that this product has been successfully tested by the Quality Control Department. This product was released for sale according to the existing specifications. This document has been produced electronically and is valid without a signature.

Approved by Manager of QC
Robbert Zwinkels

Date
16/03/2018

Do you have any questions or comments regarding this product? Please contact us via support@hycultbiotech.com.