Anti-NF-kB p105 / p50 Antibody [A2-7]

M1505-8

Product Type:	Mouse monoclonal IgM, primary antibodies
Species reactivity:	Human, Mouse
Applications:	WB, IF-Cell, IHC-P
Molecular Wt:	50 kDa
Clone number:	A2-7

Description: NF-kappa-B is a pleiotropic transcription factor present in almost all cell types and is the endpoint of a series of signal transduction events that are initiated by a vast array of stimuli related to many biological processes such as inflammation, immunity, differentiation, cell growth, tumorigenesis and apoptosis. NF-kappa-B is a homo- or heterodimeric complex formed by the Rel-like domain-containing proteins RELA/p65, RELB, NFKB1/p105, NFKB1/p50, REL and NFKB2/p52 and the heterodimeric p65-p50 complex appears to be most abundant one. The dimers bind at kappa-B sites in the DNA of their target genes and the individual dimers have distinct preferences for different kappa-B sites that they can bind with distinguishable affinity and specificity. Different dimer combinations act as transcriptional activators or repressors, respectively. NF-kappa-B is controlled by various mechanisms of post-translational modification and subcellular compartmentalization as well as by interactions with other cofactors or corepressors. NF-kappa-B heterodimeric p65-p50 and RelB-p50 complexes are transcriptional activators.

Immunogen: Synthetic peptide within Human NFKB1 aa 317-366 / 968.

Positive control: MCF-7, HepG2, human breast carcinoma tissue

Subcellular location: Nucleus. Cytoplasm.

Database links: SwissProt: P19838 Human

Recommended Dilutions:

WB	1:1,000-1:2,000
IF-Cell	1:200
IHC-P	1:200-1:500

Storage Buffer: 1*PBS (pH7.4), 0.2% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.

Storage Instruction: Shipped at 4℃. Store at +4℃ short term (1-2 weeks). It is recommended to aliquot into single-use upon delivery. Store at -20℃ long term.

Purity: Protein L affinity purified.

Images

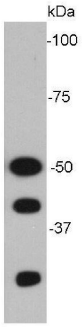

Fig1: Western blot analysis of NF-κB p105/p50 on MCF-7 cell lysates.

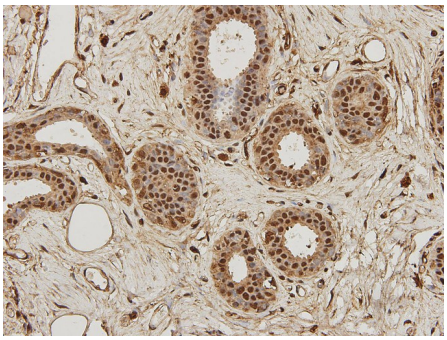

Fig2: Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using anti-NF-κB p105/p50 antibody. Counter stained with hematoxylin.

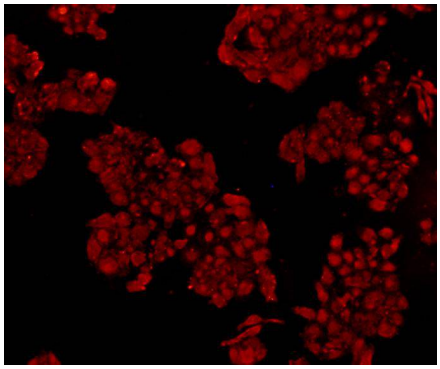

Fig3: ICC staining NF-κB p105/p50 in HepG2 cells (red). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.

Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

1. "Casper/c-FLIP is physically and functionally associated with NF-kappaB1 p105." Li Z., Zhang J., Chen D., Shu H.B. Biochem. Biophys. Res. Commun. 309:980-985(2003)
2. "Identification of a ZU5 and death domain-containing inhibitor of NF-kappaB." Zhang J., Xu L.-G., Han K.-J., Shu H.-B. J. Biol. Chem. 279:17819-17825(2004)
3. "An enzyme assisted RP-RPLC approach for in-depth analysis of human liver phosphoproteome." Bian Y., Song C., Cheng K., Dong M., Wang F., Huang J., Sun D., Wang L., Ye M., Zou H. J. Proteomics 96:253-262(2014)