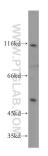
For Research Use Only NFKB1,p105,p5 antibody Catalog Number:15506-1-A				Antibodies ELISA kits Proteins WWW.ptglab.com
Basic Information	15506-1-AP NM Concentration: Ger 350 ug/ml 479 Source: UNI Rabbit P19 Isotype: Full IgG nuc 1 Cal 105 Obs		GenBank Accession Number: Purification Method: NM_003998 Antigen affinity purification GeneID (NCBI): Recommended Dilutions: Graph WB 1:200-1:1000 JNIPROT ID: IHC 1:50-1:500 P19838 Full Name: nuclear factor of kappa light Solypeptide gene enhancer in B-cells Calculated MW: Cos kDa Doserved MW: So kDa	
Applications	Tested Applications:Positive Controls:WB, IHC, ELISAWB: A431 cells, Raji cellsCited Applications:IHC : human stomach tissue, mouse brain tissueWB, IHCSpecies Specificity:humanCited Species:human, mouse, rat, bovineNote-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0			
Background Information	NFkB is a pleiotropic transcription factor which is present in almost all cell types and is involved in many biological processed such as inflammation, immunity, differentiation, cell growth, tumorigenesis and apoptosis. NFkB is is activated by various intra and extra cellular stimuli such as cytokines, oxidant free radicals, ultraviolet irradiation, and bacterial or viral products. NFkB is a family of transcription factors that consists of homo and heterodimers of NFkB1/p50 and RelA/p65 subunits, and controls a variety of cellular events including development and immune responses. All members share a conserved amino terminus domain that includes dimerization, nuclear localization, and DNA binding regions, and a carboxy terminal transactivation domain. Serines 529 and 536 in the transactivation domain of RelA/p65 are phosphorylated in response to several stimuli including phorbol ester, IL1 alpha and TNF alpha as mediated by IkB kinase and p38 MAPK. Phosphorylation of serines 529 and 536 is critical for RelA/p65 transcriptional activity. Activated NFkB translocates into the nucleus and stimulates the expression of genes involved in a wide variety of biological functions. Inappropriate activation of NFkB has been associated with a number of inflammatory diseases while persistent inhibition of NFkB leads to inappropriate immune cell development or delayed cell growth. NFKB1 appears to have dual functions such as cytoplasmic retention of attached NF-kappa-B proteins by p105 and generation of p50 by a cotranslational processing. This antibody can bind both p105 and p50 isoforms of NFKB1.			
Notable Publications	Author	Pubmed ID	Journal	Application
	Liu Yang	31485630	Mol Med Rep	WB
	Qiang Li Shubo Zhou	30675235 33964361	Oncol Lett J Ethnopharmacol	WB
Storage	Storage: Store at -20°C. Stable for one Storage Buffer:			

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data





Immunohistochemical analysis of paraffinembedded human normal stomach slide using 15506-1-AP (NFKB1,p105,p50-Specific antibody) at dilution of 1:200 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffinembedded mouse brain tissue slide using 15506-1-AP (NFKB1,p105,p50-Specific antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).

A431 cells were subjected to SDS PAGE followed by western blot with 15506-1-AP (NFKB1,p105,p50-Specific antibody) at dilution of 1:200 incubated at room temperature for 1.5 hours.