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IκB-α (Phospho-Tyr305) Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP52429

Specification

IκB-α (Phospho-Tyr305) Antibody - Product Information

Application	**WB, IHC**
Primary Accession	P25963
Reactivity	**Human, Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**35609**

IκB-α (Phospho-Tyr305) Antibody - Additional Information

Gene ID 4792

Other Names
NF-kappa-B inhibitor alpha, I-kappa-B-alpha, IkB-alpha, IkappaBalpha, Major histocompatibility complex enhancer-binding protein MAD3, NFKBIA, IKBA, MAD3, NFKBI

Dilution
WB~~1:1000
IHC~~1:50~100

Format
Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.09% (W/V) sodium azide and 50% glycerol.

Storage Conditions
-20℃

IκB-α (Phospho-Tyr305) Antibody - Protein Information

Name NFKBIA

Synonyms IKBA, MAD3, NFKBI

Function
Inhibits the activity of dimeric NF-kappa-B/REL complexes by trapping REL (RELA/p65 and NFKB1/p50) dimers in the cytoplasm by masking their nuclear localization signals (PubMed:1493333, PubMed:36651806, PubMed:7479976). On cellular stimulation by immune and pro-inflammatory responses, becomes phosphorylated promoting ubiquitination and degradation, enabling the dimeric RELA to translocate to the nucleus and activate transcription (PubMed:7479976, PubMed:<a href="http://www.uniprot.org/citations/7628694"

target="_blank">7628694, PubMed:7796813, PubMed:7878466).

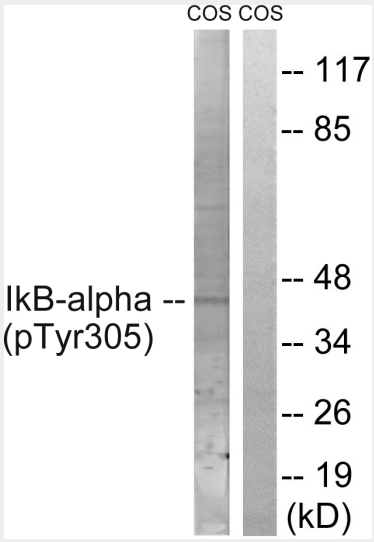
Cellular Location
Cytoplasm. Nucleus. Note=Shuttles between the nucleus and the cytoplasm by a nuclear localization signal (NLS) and a CRM1-dependent nuclear export.

IκB-α (Phospho-Tyr305) Antibody - Protocols

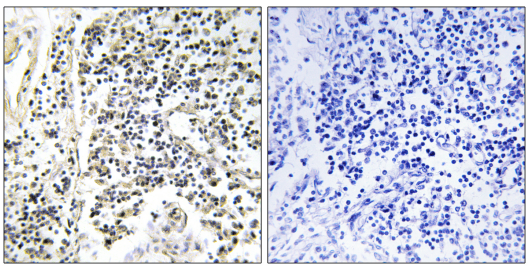
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

IκB-α (Phospho-Tyr305) Antibody - Images



Western blot analysis of extracts from COS7 cells, treated with nocodazole (1ug/ml, 16hours), using IκB-α (Phospho-Tyr305) antibody.



Immunohistochemistry analysis of paraffin-embedded human lymph node tissue using IκB-α (Phospho-Tyr305) antibody.

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IκB-α (Phospho-Tyr305) Antibody - Background

Inhibits the activity of dimeric NF-kappa-B/REL complexes by trapping REL dimers in the cytoplasm through masking of their nuclear localization signals. On cellular stimulation by immune and proinflammatory responses, becomes phosphorylated promoting ubiquitination and degradation, enabling the dimeric RELA to translocate to the nucleus and activate transcription.

IκB-α (Phospho-Tyr305) Antibody - References

Haskill S.,et al.Cell 65:1281-1289(1991).
Jungnickel B.,et al.J. Exp. Med. 191:395-402(2000).
Liu B.,et al.Submitted (APR-2001) to the EMBL/GenBank/DDBJ databases.
Kalnine N.,et al.Submitted (OCT-2004) to the EMBL/GenBank/DDBJ databases.
Ota T.,et al.Nat. Genet. 36:40-45(2004).