abcam

ab240059

Anti-IKB alpha (phospho S36) antibody [EPR6235(2)] - BSA and Azide free

Recombinant | RabMAb

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.2 - 7.4 Constituents: PBS
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Carrier free	Yes
Clone number	EPR6235(2)
Purification technique	Affinity purification Protein A
Specificity	This antibody detects IKB alpha only when phosphorylated at Serine 36. Stimulation may be required to allow detection of the phosphorylated protein due to low levels of endogenous expression. Please see images below for recommended treatment conditions and positive controls.
Concentration	1.038 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

WB

Tested

Species	Mouse, Rat, Human
Dilution info	-
Notes	-

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	-
Notes	-

Expected

Species	Mouse, Rat
Dilution info	Use at an assay dependent concentration.
Notes	-

Target data

See full target information NFKBIA pS36

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:7628694, PubMed:7796813, PubMed:7878466).

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	+4°C
Storage information	Do Not Freeze

Notes

ab240059 is the carrier-free version of ab133462.

Patented technology

Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb® patents.

What are the advantages of a recombinant monoclonal antibody?

This product is a recombinant monoclonal antibody, which offers several advantages including:

- High batch-to-batch consistency and reproducibility
- Improved sensitivity and specificity
- Long-term security of supply
- Animal-free batch production

For more information, read more on recombinant antibodies.

Conjugation ready

Our carrier-free antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.

Use our conjugation kits for antibody conjugates that are ready-to-use in as little as 20 minutes with 1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.

Compatibility

This product is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar® is a trademark of Fluidigm Canada Inc.

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

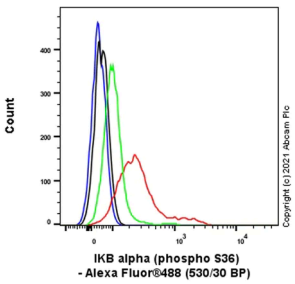
We do not recommend this combination. It is not covered by our product promise.

We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

Full details and terms and conditions can be found here:
Terms & Conditions.

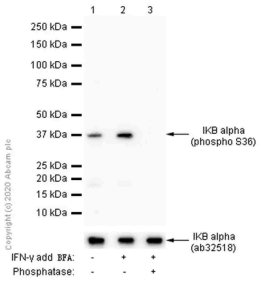
3 product images



Flow Cytometry (Intracellular) - Anti-IKB alpha (phospho S36) antibody [EPR6235(2)] - BSA and Azide free (ab240059)

IKB alpha (phospho S36) Flow Cytometry (Intracellular) staining using rabbit Anti-IKB alpha (phospho S36) antibody

This data was developed using ab133462 the same antibody clone in a different buffer formulation.
Intracellular flow cytometric analysis of 4% Paraformaldehyde fixed 90% Methanol permeabilized HeLa (Human cervix adenocarcinoma epithelial cell) treated with 1% FBS for 3 hours then 100 nM Calyculin A for 10 minutes labelling IKB alpha (phospho S36) with ab133462 at 1/100 dilution (1µg/ml) compared with a Rabbit monoclonal IgG (Black) isotype control and an unlabelled control (cells without incubation with primary antibody and secondary antibody) (Blue). A Goat anti rabbit IgG (Alexa Fluor® 488, ab150077) at 1/2000 was used as the secondary antibody. Untreated control: Green



Western blot - Anti-IKB alpha (phospho S36) antibody [EPR6235(2)] - BSA and Azide free (ab240059)

IKB alpha (phospho S36) Western blot staining using rabbit Anti-IKB alpha (phospho S36) antibody

This data was developed using ab133462 the same antibody clone in a different buffer formulation.
All lanes:
Western blot - Anti-IKB alpha (phospho S36) antibody [EPR6235(2)] (ab133462) at 1/1000 dilution

Lane 1:
Untreated THP-1 (Human monocytic leukemia monocyte) at 15 µg

Lane 2:
THP-1 (Human monocytic leukemia monocyte) treated with 100ng/ml IFN-gamma for 24 hours, then 300ng/ml Brefeldin A added and treated for another 20 hours at 15 µg

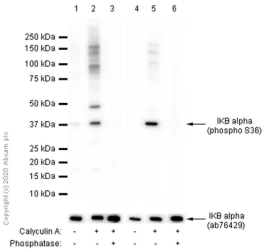
Lane 3:
THP-1 (Human monocytic leukemia monocyte) treated with 100ng/ml IFN-gamma for 24 hours, then 300ng/ml Brefeldin A added and treated for another 20 hours, then the menbrane treated with Alkaline Phosphatase for 1 hour at 15 µg

Secondary

All lanes:
Western blot - Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/20000 dilution

Predicted band size: 35 kDa

Observed band size: 40 kDa



Western blot - Anti-IKB alpha (phospho S36) antibody [EPR6235(2)] - BSA and Azide free (ab240059)

IKB alpha (phospho S36) Western blot staining using rabbit Anti-IKB alpha (phospho S36) antibody

This data was developed using ab133462 the same antibody clone in a different buffer formulation.
All lanes:
Western blot - Anti-IKB alpha (phospho S36) antibody [EPR6235(2)] (ab133462) at 1/1000 dilution

Lane 1:
NIH/3T3 (Mouse embryonic fibroblast) starved for 24 hours at 15 µg

Lane 2:
NIH/3T3 (Mouse embryonic fibroblast) starved for 24 hours then treated with 100nM Calyculin A for 30 minutes at 15 µg

Lane 3:
NIH/3T3 (Mouse embryonic fibroblast) starved for 24 hours then treated with 100nM Calyculin A for 30 minutes, then the menbrane treated with Alkaline Phosphatase for 1 hour at 15 µg

Lane 4:
Untreated C6 (Rat glial tumor glial cell) at 15 µg

Lane 5:
C6 (Rat glial tumor glial cell) treated with 100ng/ml Calyculin A for 60 minutes at 15 µg

Lane 6:
C6 (Rat glial tumor glial cell) treated with 100ng/ml Calyculin A for 60 minutes, then the membrane treated with Alkaline Phosphatase for 1 hour at 15 µg

Secondary

All lanes:
Western blot - Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/20000 dilution

Predicted band size: 35 kDa

Observed band size: 40 kDa

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.