abcam

ab244964

Anti-LTA antibody [EPR20507-260] - BSA and Azide free (Detector)

Recombinant | RabMAb

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	Constituents: PBS
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Carrier free	Yes
Clone number	EPR20507-260
Purification technique	Affinity purification Protein A
Concentration	1.01 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

sELISA

Expected

Species	Human, Rhesus monkey
Dilution info	Use at an assay dependent concentration.

Notes	-

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	-
Notes	-

Predicted

Species	Rhesus monkey
Dilution info	-
Notes	-

ICC/IF

Tested

Species	Human
Dilution info	-
Notes	-

Predicted

Species	Rhesus monkey
Dilution info	-
Notes	-

Target data

See full target information LTA

Function	Cytokine that in its homotrimeric form binds to TNFRSF1A/TNFR1, TNFRSF1B/TNFBR and TNFRSF14/HVEM (PubMed:9462508). In its heterotrimeric form with LTB binds to TNFRSF3/LTBR (PubMed:24248355). Lymphotoxin is produced by lymphocytes and is cytotoxic for a wide range of tumor cells in vitro and in vivo.

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	+4°C

Notes

ab244964 is a BSA and Azide Free antibody supplied in an unconjugated format and it is suitable for sandwich ELISAs to quantify Human TNF beta. The recommended pair for sandwich ELISA is:
Capture: ab244840, Human TNF beta Capture Antibody (unconjugated)
Detector: ab244964, Human TNF beta Detector Antibody (unconjugated)
The reference range value is 16 - 1000 pg/ml.

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.

Sandwich ELISA
The recommended antibody orientation is based on internal optimization for ELISA-based assays. Antibody orientation is assay dependent and needs to be optimized for each assay type. Please note that the range provided for this antibody is only an estimation based on the performance of the product using the recommended antibody pair. Performance of the antibody pair will depend on the specific characteristics of your assay. We guarantee the

product works in sandwich ELISA, but we do not guarantee the sensitivity or dynamic range of the antibody in your assay.

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

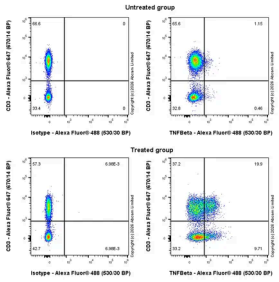
We do not recommend this combination. It is not covered by our product promise.

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.

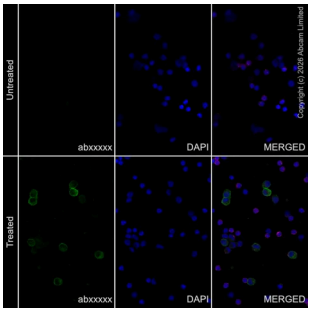
3 product images



Flow Cytometry (Intracellular) - Anti-LTA antibody [EPR20507-260] - BSA and Azide free (Detector) (ab244964)

LTA Flow Cytometry (Intracellular) staining using rabbit Anti-LTA antibody

Flow cytometry scatter plots showing Human PBMC (human peripheral blood mononuclear cell) treated with ab244964, 50ng/ml PMA and 500ng/mL Ionomycin for 24 hours then add 300ng/ml BFA for 20 hours (Lower left and right). Untreated Human PBMC (Upper left and right). The cells were fixed and permeabilised using 4% paraformaldehyde and 0.1% Tween-20. Cells were surface stained with anti-CD3 conjugated to Alexa Fluor®647. Then fixed with 4% PFA for 10 min followed by intracellularly staining with rabbit IgG or our antibody.

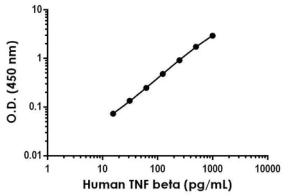


Immunocytochemistry/ Immunofluorescence - Anti-LTA antibody [EPR20507-260] - BSA and Azide free (Detector) (ab244964)

LTA Immunocytochemistry/ Immunofluorescence staining of Human PBMC treated with 50 ng/ml PMA and 500ng/ml Ionomycin for 24 hours and then add 300 ng/ml BFA for 20 hours using rabbit Anti-LTA antibody

Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% TritonX-100 permeabilized Human PBMC (human primary peripheral blood mononuclear cell) cells labelling LTA with ab244964 at 1:100 dilution, followed by ab150081 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed antibody at 1/1000 dilution.

Confocal image showing increased staining in subset of human PBMCs (shown in green) treated with 50 ng/ml PMA and 500ng/ml Ionomycin for 24 hours and then add 300 ng/ml BFA for 20 hours. The counterstain Anti-human CD3 mouse monoclonal antibody (Alexa Fluor® 647) at 1:200 dilution was observed in magenta. Nuclear DNA was labelled with DAPI (shown in blue). Image was taken with a confocal microscope (Leica-Microsystems, TCS SP8).



Sandwich ELISA - Anti-LTA antibody [EPR20507-260] - BSA and Azide free (Detector) (ab244964)

Representative standard curve from corresponding SimpleStep ELISA® Kit (ab229202).

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