abcam

Product datasheet

Anti-Nucleoside triphosphate phosphohydrolase antibody [EPR14325] - BSA and Azide free ab250596

KO VALIDATED Recombinant RabMAb

5 Images

Overview

Product name	Anti-Nucleoside triphosphate phosphohydrolase antibody [EPR14325] - BSA and Azide free
Description	Rabbit monoclonal [EPR14325] to Nucleoside triphosphate phosphohydrolase - BSA and Azide free
Host species	Rabbit
Tested applications	**Suitable for:** IP, Flow Cyt (Intra), WB
Species reactivity	**Reacts with:** Human
Immunogen	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: HEK-293T, U87-MG and Jurkat cell lysates. Flow Cyt (intra): Jurkat cells.
General notes	ab250596 is the carrier-free version of **ab182154**. Our **carrier-free** antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency. 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. 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. 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 production For more information **see here**. Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C. Do Not Freeze.
Storage buffer	pH: 7.2 Constituent: PBS
Carrier free	Yes
Purity	Affinity purified
Clonality	Monoclonal
Clone number	EPR14325
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab250596 in the following tested applications.

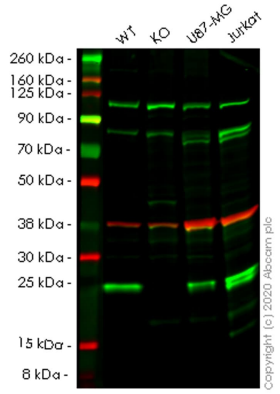
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IP		Use at an assay dependent concentration.
Flow Cyt (Intra)		Use at an assay dependent concentration.
WB		Use at an assay dependent concentration. Detects a band of approximately 21 kDa (predicted molecular weight: 21 kDa).

Target

Relevance Nucleoside triphosphate phosphohydrolase (Chromosome 1 open reading frame 57) belongs to the UPF0334 family. The function of C1orf57 is unknown.

Images



Western blot - Anti-Nucleoside triphosphate phosphohydrolase antibody [EPR14325] - BSA and Azide free (ab250596)

All lanes : Anti-Nucleoside triphosphate phosphohydrolase antibody [EPR14325] (**ab182154**) at 1/1000 dilution

Lane 1 : Wild-type HEK-293T (Human epithelial cell line from embryonic kidney transformed with large T antigen) whole cell lysate
Lane 2 : NTPCR knockout HEK-293T (Human epithelial cell line from embryonic kidney transformed with large T antigen) whole cell lysate
Lane 3 : U-87 MG (Human glioblastoma-astrocytoma epithelial cell line) whole cell lysate
Lane 4 : Jurkat (Human T cell leukemia cell line from peripheral blood) whole cell lysate

Lysates/proteins at 20 µg per lane.

Secondary
All lanes : Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (**ab216773**) at 1/10000 dilution

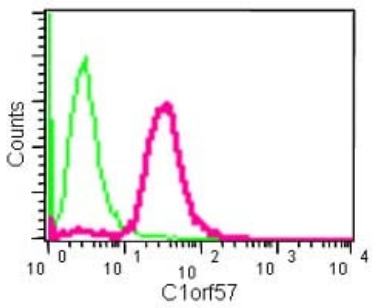
Predicted band size: 21 kDa
Observed band size: 21 kDa

This data was developed using **ab182154**, the same antibody clone in a different buffer formulation.

Lanes 1-4: Merged signal (red and green). Green - **ab182154** observed at 21 kDa. Red - loading control **ab8245** observed at 36 kDa.

ab182154 Anti-Nucleoside triphosphate phosphohydrolase antibody [EPR14325] was shown to specifically react with Nucleoside triphosphate phosphohydrolase in wild-type HEK-293T cells. Loss of signal was observed when knockout cell line **ab266397** (knockout cell lysate **ab258083**) was used. Wild-type

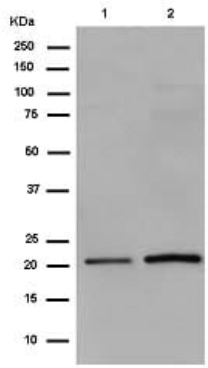
and Nucleoside triphosphate phosphohydrolase knockout samples were subjected to SDS-PAGE. **ab182154** and Anti-GAPDH antibody [6C5] - Loading Control (**ab8245**) were incubated overnight at 4°C at 1 in 1000 dilution and 1 in 20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (**ab216773**) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preadsorbed (**ab216776**) secondary antibodies at 1 in 20000 dilution for 1 hour at room temperature before imaging.



Flow Cytometry (Intracellular) - Anti-Nucleoside triphosphate phosphohydrolase antibody [EPR14325] - BSA and Azide free (ab250596)

This data was developed using **ab182154**, the same antibody clone in a different buffer formulation.

Intracellular flow cytometric analysis of Jurkat cells (paraformaldehyde-fixed, 2%) labeling Nucleoside triphosphate phosphohydrolase with **ab182154** at 1/230 dilution (red) or a rabbit IgG (negative) (green), followed by Goat anti rabbit IgG (FITC) secondary at 1/150 dilution.



Western blot - Anti-Nucleoside triphosphate phosphohydrolase antibody [EPR14325] - BSA and Azide free (ab250596)

All lanes : Anti-Nucleoside triphosphate phosphohydrolase antibody [EPR14325] (**ab182154**) at 1/2000 dilution

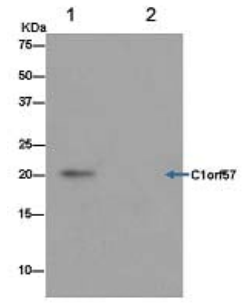
Lane 1 : U-87 MG (Human glioblastoma-astrocytoma epithelial cell line) cell lysate
Lane 2 : Jurkat cell lysate

Lysates/proteins at 20 µg per lane.

Secondary
All lanes : Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugate at 1/1000 dilution

Predicted band size: 21 kDa

This data was developed using **ab182154**, the same antibody clone in a different buffer formulation.



Immunoprecipitation - Anti-Nucleoside triphosphate phosphohydrolase antibody [EPR14325] - BSA and Azide free (ab250596)

This data was developed using **ab182154**, the same antibody clone in a different buffer formulation.Western blot analysis of immunoprecipitation pellet from U87-MG cell lysate immunoprecipitated using **ab182154** at 1/20 dilution. Secondary: Anti-Rabbit IgG (HRP), specific to the non-reduced form of IgG at 1/1500 dilution.

Anti-Nucleoside triphosphate phosphohydrolase antibody [EPR14325] - BSA and Azide free (ab250596)

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