abcam

Product datasheet

Anti-TRK fused gene antibody [EPR8766] - BSA and Azide free ab235871

KO VALIDATED Recombinant RabMAb

3 Images

Overview

Product name	Anti-TRK fused gene antibody [EPR8766] - BSA and Azide free
Description	Rabbit monoclonal [EPR8766] to TRK fused gene - BSA and Azide free
Host species	Rabbit
Tested applications	**Suitable for:** WB, IP, IHC-P, ICC/IF **Unsuitable for:** Flow Cyt
Species reactivity	**Reacts with:** Mouse, Human **Predicted to work with:** Rat
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: Human fetal brain tissue lysate and HeLa, A549, 293T, MCF7 and wild-type HAP1 cell lysates. IHC-P: Human colon and thyroid carcinoma tissues. ICC/IF: HeLa and MCF7 cells.
General notes	ab235871 is the carrier-free version of **ab156866**. 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	Protein A purified
Clonality	Monoclonal
Clone number	EPR8766
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab235871 in the following tested applications.

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

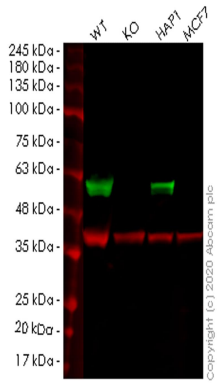
Application	Abreviews	Notes
WB		Use at an assay dependent concentration. Predicted molecular weight: 43 kDa.
IP		Use at an assay dependent concentration.
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.
ICC/IF		Use at an assay dependent concentration.

Application notes Is unsuitable for Flow Cyt.

Target

Tissue specificity	Ubiquitous.
Involvement in disease	Defects in TFG are a cause of thyroid papillary carcinoma (TPC) [MIM:188550]. TPC is a common tumor of the thyroid that typically arises as an irregular, solid or cystic mass from otherwise normal thyroid tissue. Papillary carcinomas are malignant neoplasm characterized by the formation of numerous, irregular, finger-like projections of fibrous stroma that is covered with a surface layer of neoplastic epithelial cells. Note=A chromosomal aberration involving TFG is found in thyroid papillary carcinomas. Translocation t(1;3)(q21;q11) with NTRK1. The TFG sequence is fused to the 3'-end of NTRK1 generating the TRKT3 (TRK-T3) fusion transcript.

Images



Western blot - Anti-TRK fused gene antibody [EPR8766] - BSA and Azide free (ab235871)

All lanes : Anti-TRK fused gene antibody [EPR8766] (**ab156866**) at 1/1000 dilution

Lane 1 : Wild-type HeLa cell lysate
Lane 2 : TFG knockout HeLa cell lysate
Lane 3 : HAP-1 cell lysate
Lane 4 : MCF7 cell lysate

Lysates/proteins at 20 µg per lane.

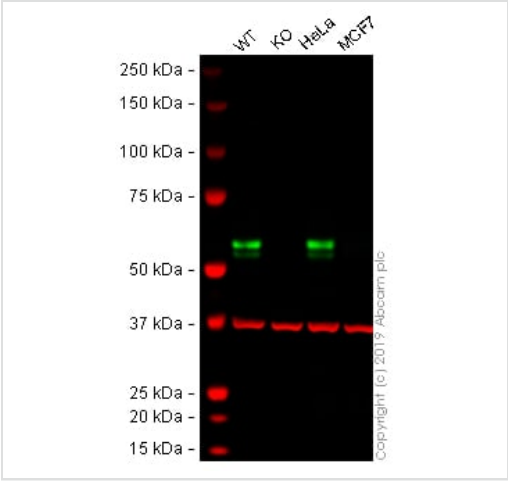
Secondary
All lanes : Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (**ab216773**) at 1/10000 dilution

Predicted band size: 43 kDa
Observed band size: 57 kDa

This data was developed using the same antibody clone in a different buffer formulation (**ab156866**).

Lanes 1-4: Merged signal (red and green). Green - **ab156866** observed at 57 kDa. Red - loading control **ab8245** observed at 36 kDa.

ab156866 Anti-TRK fused gene antibody [EPR8766] was shown to specifically react with TFG in wild-type HeLa cells. Loss of signal was observed when knockout cell line **ab265841** (knockout cell lysate **ab257738**) was used. Wild-type and TFG knockout samples were subjected to SDS-PAGE. **ab156866** 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.



Western blot - Anti-TRK fused gene antibody [EPR8766] - BSA and Azide free (ab235871)

All lanes : Anti-TRK fused gene antibody [EPR8766] (**ab156866**) at 1/10000 dilution

Lane 1 : Wild-type HAP1 whole cell lysate
Lane 2 : TFG knockout HAP1 whole cell lysate
Lane 3 : HeLa whole cell lysate
Lane 4 : MCF7 whole cell lysate

Lysates/proteins at 20 µg per lane.

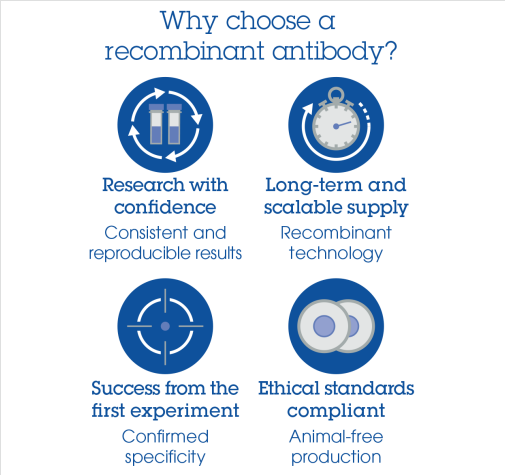
Performed under reducing conditions.

Predicted band size: 43 kDa
Observed band size: 57 kDa

This data was developed using the same antibody clone in a different buffer formulation (**ab156866**).

Lanes 1 - 4: Merged signal (red and green). Green - **ab156866** observed at 57 kDa. Red - loading control, **ab8245** (Mouse anti-GAPDH antibody [6C5]) observed at 37kDa.

ab156866 was shown to react with TFG in HAP1 wild-type cells in Western blot. Loss of signal was observed when TFG knockout sample was used. HAP1 wild-type and TFG knockout whole cell lysates were subjected to SDS-PAGE. Membranes were blocked in 3% Milk in TBS-T (0.1% Tween®) before incubation with **ab156866** and **ab8245** (Mouse anti-GAPDH antibody [6C5]) overnight at 4°C at a 1 in 10000 dilution and a 1 in 20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preabsorbed (**ab216773**) and Goat anti-Mouse IgG H&L (IRDye® 800CW) preabsorbed (**ab216772**) secondary antibodies at 1 in 20000 dilution for 1 hour at room temperature before imaging.



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