abcam

Product datasheet

Anti-TYRO3 antibody [EPR4308] ab109231

Recombinant RabMAb

11 References 8 Images

Overview

Product name	Anti-TYRO3 antibody [EPR4308]
Description	Rabbit monoclonal [EPR4308] to TYRO3
Host species	Rabbit
Specificity	The mouse and rat recommendation is based on the WB results. We do not guarantee IHC-P for mouse and rat.
Tested applications	**Suitable for:** WB, IP, IHC-P **Unsuitable for:** Flow Cyt
Species reactivity	**Reacts with:** Mouse, Rat, Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: Fetal brain, fetal hippocampus, MCF7, Rat hippocampus, Rat brain, Human fetal brain, and Mouse hippocampus lysates IP: SH-SY5Y whole cell lysate IHC-P: Human brain tissue, Human colon carcinoma and Human ovarian carcinoma
General notes	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**. Rat: We have preliminary internal testing data to indicate this antibody may not react with this species. Please contact us for more information.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
Storage buffer	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: PBS, 0.05% BSA, 40% Glycerol

Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR4308
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab109231 in the following tested applications.

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

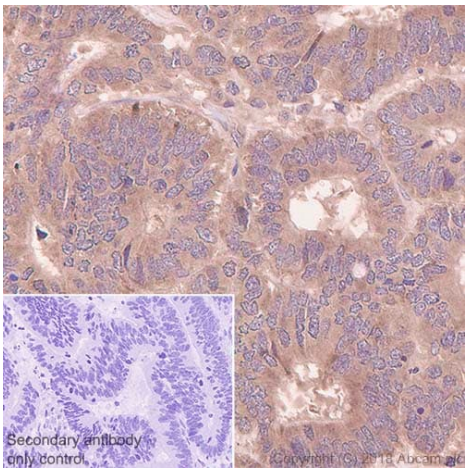
Application	Abreviews	Notes
WB		1/1000 - 1/10000. Predicted molecular weight: 97 kDa.
IP		1/200. **For unpurified use at 1/10 - 1/100.**
IHC-P		1/500. Perform heat mediated antigen retrieval before commencing with IHC staining protocol. **For unpurified use at 1/100 - 1/250.** Heat up to 98 °C, below boiling, and then let cool for 10-20 minutes. The mouse and rat recommendation is based on the WB results.

Application notes Is unsuitable for Flow Cyt.

Target

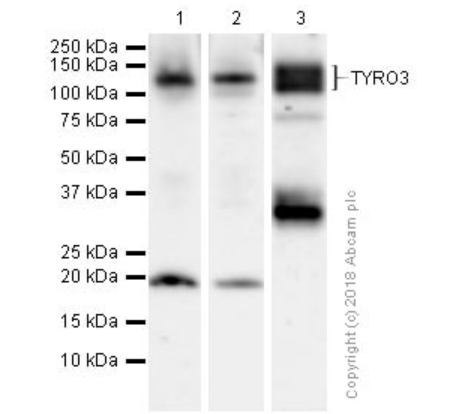
Function	May be involved in cell adhesion processes, particularly in the central nervous system. In case of filovirus infection, seems to function as a cell entry factor.
Tissue specificity	Abundant in the brain and lower levels in other tissues.
Sequence similarities	Belongs to the protein kinase superfamily. Tyr protein kinase family. AXL/UFO subfamily. Contains 2 fibronectin type-III domains. Contains 2 Ig-like C2-type (immunoglobulin-like) domains. Contains 1 protein kinase domain.
Cellular localization	Cell membrane.

Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TYRO3 antibody [EPR4308] (ab109231)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Human colon carcinoma tissue sections labeling TYRO3 with purified ab109231 at 1:500 dilution (7.44 µg/ml). Heat mediated antigen retrieval was performed using **ab93684** (Tris/EDTA buffer, pH 9.0). ImmunoHistoProbe one step HRP Polymer (ready to use)was used as the secondary antibody. Negative control:PBS instead of the primary antibody. Hematoxylin was used as a counterstain.



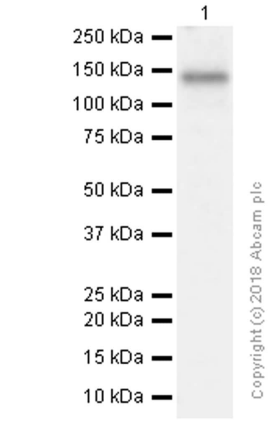
Western blot - Anti-TYRO3 antibody [EPR4308] (ab109231)

All lanes : Anti-TYRO3 antibody [EPR4308] (ab109231) at 1/1000 dilution (Purified)

Lane 1 : Rat hippocampus lysates at 20 µg
Lane 2 : Rat brain lysates at 20 µg
Lane 3 : Human fetal brain lysates at 15 µg

Secondary
All lanes : Goat Anti-Rabbit IgG (HRP) with minimal cross-reactivity with human IgG at 1/2000 dilution

Predicted band size: 97 kDa
Observed band size: 120 kDa



Western blot - Anti-TYRO3 antibody [EPR4308] (ab109231)

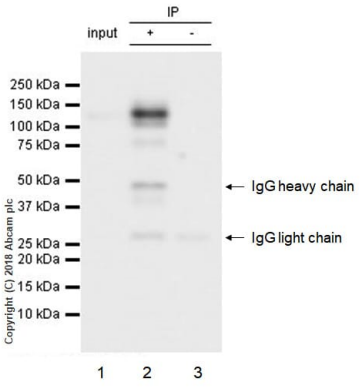
Anti-TYRO3 antibody [EPR4308] (ab109231) at 1/1000 dilution (Purified) + Mouse hippocampus lysates at 15 µg

Secondary

Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/20000 dilution

Predicted band size: 97 kDa

Observed band size: 120 kDa



Immunoprecipitation - Anti-TYRO3 antibody [EPR4308] (ab109231)

ab109231 (purified) at 1:200 dilution (2µg) immunoprecipitating TYRO3 in SH-SY5Y whole cell lysate.

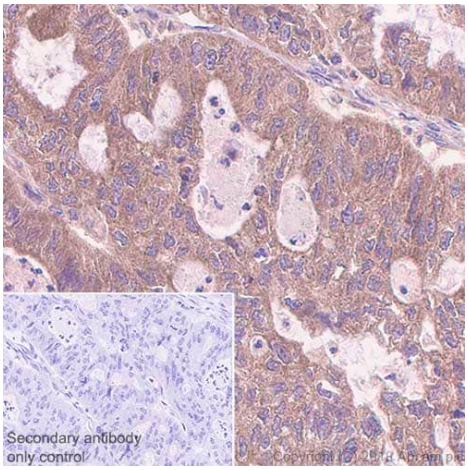
Lane 1 (input): SH-SY5Y (Human neuroblastoma epithelial cell) whole cell lysate 10µg

Lane 2 (+): ab109231 & SH-SY5Y whole cell lysate

Lane 3 (-): Rabbit monoclonal IgG (**ab172730**) instead of ab109231 in SH-SY5Y whole cell lysate

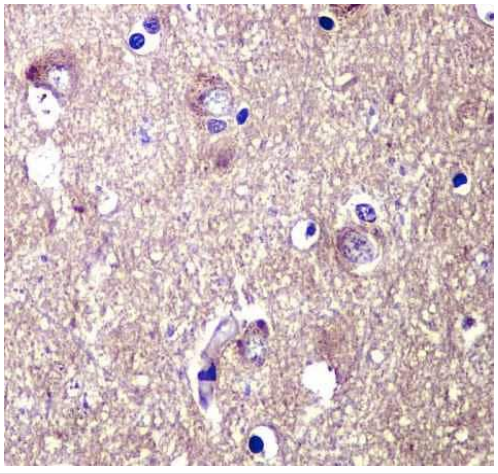
For western blotting, VeriBlot for IP Detection Reagent (HRP) (**ab131366**) was used for detection at 1:2000 dilution.

Blocking and diluting buffer: 5% NFDM/TBST.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TYRO3 antibody [EPR4308] (ab109231)

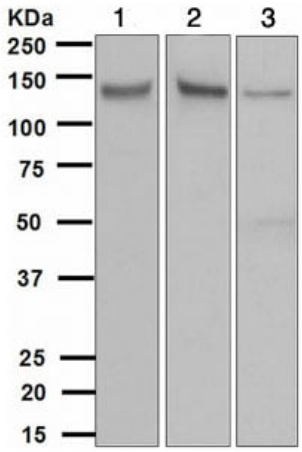
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Human ovarian carcinoma tissue sections labeling TYRO3 with purified ab109231 at 1:500 dilution (7.44 µg/ml). Heat mediated antigen retrieval was performed using **ab93684** (Tris/EDTA buffer, pH 9.0). ImmunoHistoProbe one step HRP Polymer (ready to use)was used as the secondary antibody. Negative control:PBS instead of the primary antibody. Hematoxylin was used as a counterstain.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TYRO3 antibody [EPR4308] (ab109231)

Immunohistochemical analysis of TYRO3 in paraffin embedded Human brain tissue, using ab109231 at a 1/100 dilution.

Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



Western blot - Anti-TYRO3 antibody [EPR4308] (ab109231)

All lanes : Anti-TYRO3 antibody [EPR4308] (ab109231) at 1/1000 dilution

Lane 1 : fetal brain lysates
Lane 2 : fetal hippocampus lysates
Lane 3 : MCF7 cell lysates

Lysates/proteins at 10 µg per lane.

Secondary
All lanes : HRP labelled goat anti-rabbit at 1/2000 dilution

Predicted band size: 97 kDa

Anti-TYRO3 antibody [EPR4308] (ab109231)

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