abcam

Product datasheet

Anti-STIP1/STI1 antibody [EPR6605] ab126724

KO VALIDATED Recombinant RabMAb

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Overview

Product name	Anti-STIP1/STI1 antibody [EPR6605]
Description	Rabbit monoclonal [EPR6605] to STIP1/STI1
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:** Flow Cyt (Intra), WB, IHC-P
Species reactivity	**Reacts with:** Mouse, Rat, Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: HAP1, HEK-293, Jurkat, HeLa, BxPC3, HepG2, and SK OV 3 cell lysates, human, mouse and rat brain lysate. IHC-P: Human ovarian carcinoma, testis, thyroid cancer tissue. Flow Cyt (intra): HeLa cells.
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**.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Stable for 12 months at -20°C.
Storage buffer	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Purity	Protein A purified

Clonality	Monoclonal
Clone number	EPR6605
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab126724 in the following tested applications.

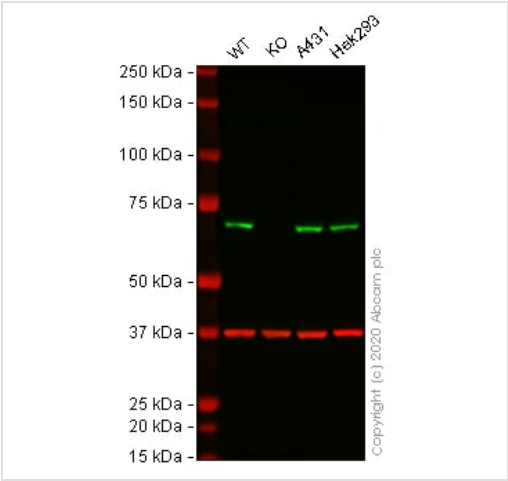
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Flow Cyt (Intra)		1/20. For unpurified use at1/20
WB	★★★★★ **(6)**	1/10000 - 1/50000. Detects a band of approximately 63 kDa (predicted molecular weight: 63 kDa).
IHC-P		1/1000. Perform heat mediated antigen retrieval before commencing with IHC staining protocol. **For unpurified use at 1/250- 1/500** The mouse and rat recommendation is based on the WB results. We do not guarantee IHC-P for mouse and rat. See **IHC antigen retrieval protocols**.

Target

Function	Mediates the association of the molecular chaperones HSC70 and HSP90 (HSPCA and HSPCB).
Sequence similarities	Contains 2 STI1 domains. Contains 9 TPR repeats.
Domain	The TPR 1 repeat interacts with the C-terminal of HSC70. The TPR 4, 5 and 6 repeats (also called TPR2A domain) and TPR 7, 8 and 9 repeats (also called TPR2B domain) interact with HSP90.
Cellular localization	Cytoplasm. Nucleus.

Images



Western blot - Anti-STIP1/STI1 antibody [EPR6605] (ab126724)

All lanes : Anti-STIP1/STI1 antibody [EPR6605] (ab126724) at 1/10000 dilution

Lane 1 : Wild-type HAP1 cell lysate
Lane 2 : STIP1 knockout HAP1 cell lysate
Lane 3 : A431 cell lysate
Lane 4 : HEK-293 cell lysate

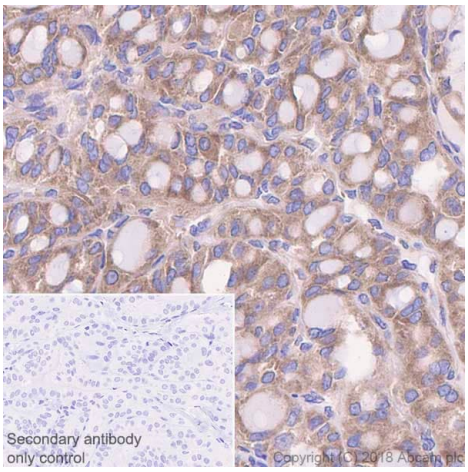
Lysates/proteins at 20 µg per lane.

Performed under reducing conditions.

Predicted band size: 63 kDa
Observed band size: 63 kDa

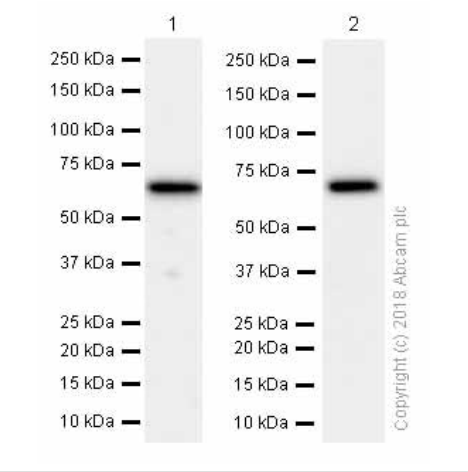
Lanes 1 - 4: Merged signal (red and green). Green - ab126724 observed at 63 kDa. Red - loading control **ab8245** (Mouse anti-GAPDH antibody [6C5]) observed at 37kDa.

ab126724 was shown to react with STIP1/STI1 in wild-type HAP1 cells in western blot with loss of signal observed in STIP1 knockout sample. Wild-type and STIP1 knockout HAP1 cell lysates were subjected to SDS-PAGE. Membranes were blocked in 3% milk in TBS-T (0.1% Tween®) before incubation with ab126724 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 incubated with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preabsorbed (**ab216773**) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preabsorbed (**ab216776**) secondary antibodies at 1 in 20000 dilution for 1 hour at room temperature before imaging.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-STIP1/STI1 antibody [EPR6605] (ab126724)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Human thyroid cancer tissue sections labeling STIP1/STI1 with Purified ab126724 at 1:1000 dilution (0.18 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-STIP1/STI1 antibody [EPR6605] (ab126724)

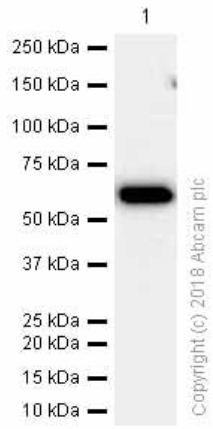
All lanes : Anti-STIP1/STI1 antibody [EPR6605] (ab126724) at 1/20000 dilution (Purified)

Lane 1 : Mouse brain lysates
Lane 2 : Rat brain lysates

Lysates/proteins at 15 µg per lane.

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

Predicted band size: 63 kDa
Observed band size: 63 kDa



Western blot - Anti-STIP1/STI1 antibody [EPR6605] (ab126724)

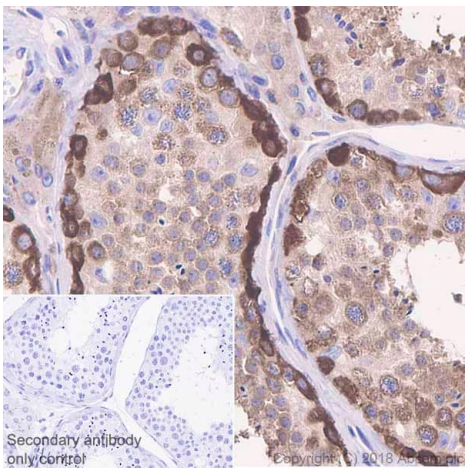
Anti-STIP1/STI1 antibody [EPR6605] (ab126724) at 1/20000 dilution (Purified) + Human brain lysates at 15 µg

Secondary

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

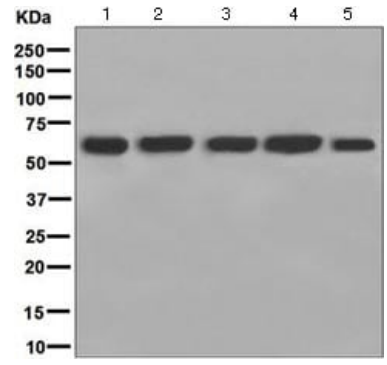
Predicted band size: 63 kDa

Observed band size: 63 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-STIP1/STI1 antibody [EPR6605] (ab126724)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Human testis tissue sections labeling STIP1/STI1 with Purified ab126724 at 1:1000 dilution (0.18 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-STIP1/STI1 antibody [EPR6605] (ab126724)

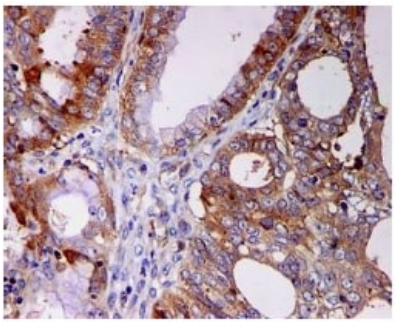
All lanes : Anti-STIP1/STI1 antibody [EPR6605] (ab126724) at 1/10000 dilution

Lane 1 : Jurkat cell lysate
Lane 2 : HeLa cell lysate
Lane 3 : BxPC3 cell lysate
Lane 4 : HepG2 cell lysate
Lane 5 : SK OV 3 cell lysate

Lysates/proteins at 10 µg per lane.

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

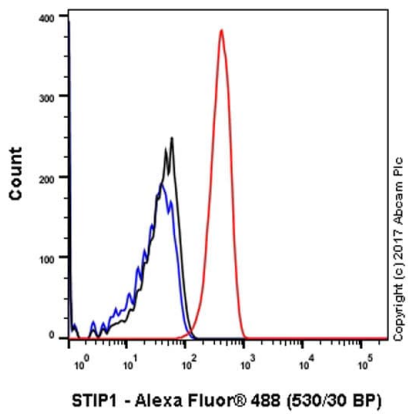
Predicted band size: 63 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-STIP1/STI1 antibody [EPR6605] (ab126724)

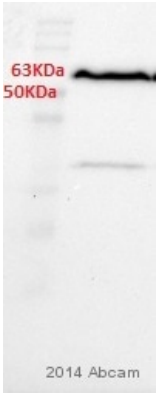
Unpurified ab126724, at a dilution of 1/250, staining STIP1/STI1 in paraffin-embedded human ovarian carcinoma tissue by Immunohistochemistry.

Heat mediated antigen retrieval was performed before commencing with IHC staining protocol.



Flow Cytometry (Intracellular) - Anti-STIP1/STI1 antibody [EPR6605] (ab126724)

Intracellular Flow Cytometry analysis of HeLa (human cervix adenocarcinoma) cells labeling STIP1/STI1 (red) with purifiedab126724 at a 1/200 dilution. Cells were fixed with 4% paraformaldehyde and permeabilized with 90% methanol. A goat anti-rabbit IgG (Alexa Fluorr® 488) (**ab150077**) was used as the secondary antibody at a 1/2000 dilution. Black - Rabbit monoclonal IgG (**ab172730**). Blue (unlabeled control) - Cells without incubation with primary and secondary antibodies.



Western blot - Anti-STIP1/STI1 antibody [EPR6605] (ab126724)

This image is courtesy of an anonymous Abreview

Anti-STIP1/STI1 antibody [EPR6605] (ab126724) at 1/1000 dilution (Unpurified) + Mouse brain whole tissue lysate at 150 µg

Secondary

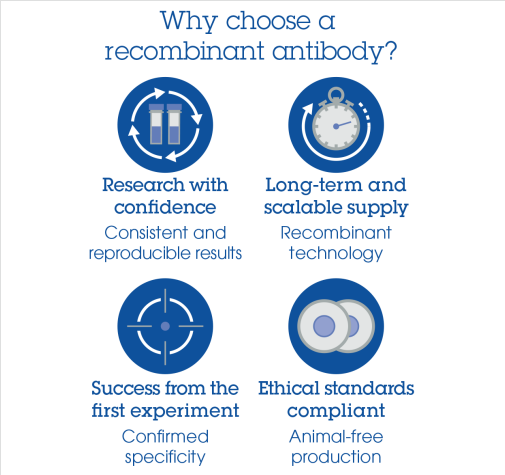
HRP-conjugated goat anti-rabbit IgG polyclonal at 1/10000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 63 kDa
Observed band size: 63 kDa

Exposure time: 5 minutes



Anti-STIP1/STI1 antibody [EPR6605] (ab126724)

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