

Anti-Somatostatin Receptor 5 antibody [UMB4] ab109495

Recombinant RabMAb

[41 References](#) [4 Images](#)

Overview

| | |
|----------------------------|---|
| Product name | Anti-Somatostatin Receptor 5 antibody [UMB4] |
| Description | Rabbit monoclonal [UMB4] to Somatostatin Receptor 5 |
| Host species | Rabbit |
| Specificity | Internal WB test in PANC-1, human pancreas and human brain lysates indicates this antibody might not detect endogenous Somatostatin Receptor 5. |
| Tested applications | Suitable for: WB, IHC-P Unsuitable for: Flow Cyt or ICC/IF |
| Species reactivity | Reacts with: Human |
| Immunogen | Synthetic peptide. This information is proprietary to Abcam and/or its suppliers. |
| Positive control | WB: HT29 whole cell lysate (ab3952), 293T (Human embryonic kidney epithelial cell) transfected with human SSTR5 expression vector, IHC-P: Human pancreas |
| General notes | <p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p> |

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: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.5% BSA |

| | |
|---------------------|--------------------|
| Purity | Protein A purified |
| Clonality | Monoclonal |
| Clone number | UMB4 |
| Isotype | IgG |

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab109495 in the following tested applications.

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

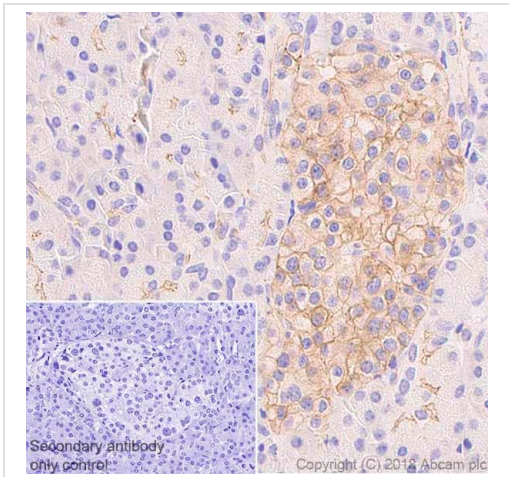
| Application | Abreviews | Notes |
|--------------|-----------|---|
| WB | | 1/1000 - 1/10000. Predicted molecular weight: 39 kDa. Internal WB test in PANC-1, human pancreas and human brain lysates indicates this antibody might not detect endogenous Somatostatin Receptor 5. |
| IHC-P | | 1/50. Perform heat mediated antigen retrieval via the pressure cooker method before commencing with IHC staining protocol. For unpurified use at 1/100-1/250 See <u>IHC antigen retrieval protocols</u> . |

Application notes Is unsuitable for Flow Cyt or ICC/IF.

Target

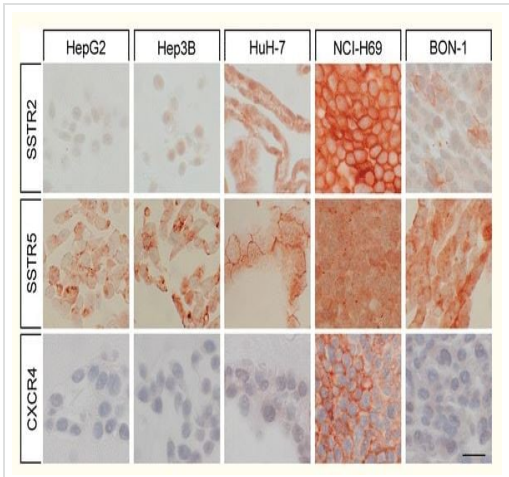
| | |
|------------------------------|---|
| Function | Receptor for somatostatin 28 and to a lesser extent for somatostatin-14. The activity of this receptor is mediated by G proteins which inhibit adenylyl cyclase. |
| Tissue specificity | Adult pituitary gland, heart, small intestine, adrenal gland, cerebellum and fetal hypothalamus. No expression in fetal or adult kidney, liver, pancreas, uterus, spleen, lung, thyroid or ovary. |
| Sequence similarities | Belongs to the G-protein coupled receptor 1 family. |
| Cellular localization | Cell membrane. |

Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Somatostatin Receptor 5 antibody [UMB4] (ab109495)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Human pancreas tissue sections labeling Somatostatin Receptor 5 with Purified ab109495 at 1:50 dilution (16.3 µg/ml). Heat mediated antigen retrieval was performed with Tris/EDTA buffer (pH 9.0, epitope retrieval solution 2) for 10mins.. Performed on a Leica Biosystems BOND ® RX instrument.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-Somatostatin Receptor 5 antibody [UMB4] (ab109495)

Kaemmerer, D. et al BMC Cancer. 2017 Dec 28;17(1):896. doi: 10.1186/s12885-017-3911-3
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Somatostatin receptor 2 (SSTR2), somatostatin receptor 5 (SSTR5) and CXCR4 expression in the hepatoblastoma cell line HepG2 and in the hepatoma cell lines Hep3B and HuH-7 in comparison to the small cell lung cancer cell line NCI-H69 and the neuroendocrine tumor cell line BON-1. Immunohistochemistry (red-brown color), counterstaining with hematoxylin; scale bar: 20 µm. Representative photomicrographs of three independent batches are shown.

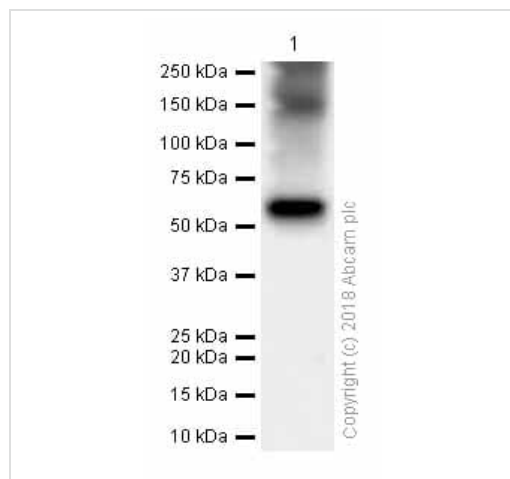
HepG2, Hep3B, HuH-7, NCI-H-69, and BON-1 cells (DSMZ, Braunschweig, Germany) were grown in 75 cm² culture flasks to a confluency of 80%. Cells were washed once with phosphate-buffered saline and transferred into 10% buffered formalin (J.T.Baker, Deventer, The Netherlands) for 2 h. After centrifugation for 10 min at 3500 x g, the supernatant was removed, and 1 ml human pool plasma was added to the cell samples. After brief vortexing, 100 µl human fibrinogen (50–70% protein; ≥80% clottable) was added to each sample, and the samples were vortexed again. The resulting clots were placed for another 24 h in

10% buffered formalin and embedded in paraffin blocks.

(After Kaemmerer, D. et al **BMC Cancer**. 2017 Dec 28;17(1):896.
doi: 10.1186/s12885-017-3911-3).

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Western blot - Anti-Somatostatin Receptor 5 antibody [UMB4] (ab109495)

Anti-Somatostatin Receptor 5 antibody [UMB4] (ab109495) at 0.08 µg/ml (purified) + 293T (Human embryonic kidney epithelial cell) transfected with human SSTR5 expression vector, whole cell lysate at 15 µg


Secondary

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

Predicted band size: 39 kDa

Blocking and diluting buffer: 5% NFDM/TBST

Why choose a recombinant antibody?

| | |
|--|--|
|  <p>Research with confidence Consistent and reproducible results</p> |  <p>Long-term and scalable supply Recombinant technology</p> |
|  <p>Success from the first experiment Confirmed specificity</p> |  <p>Ethical standards compliant Animal-free production</p> |

Anti-Somatostatin Receptor 5 antibody [UMB4] (ab109495)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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