abcam

Product datasheet

Anti-Somatostatin Receptor 5 antibody [UMB4] - BSA and Azide free ab236074

Recombinant RabMAb

3 Images

Overview

Product name	Anti-Somatostatin Receptor 5 antibody [UMB4] - BSA and Azide free
Description	Rabbit monoclonal [UMB4] to Somatostatin Receptor 5 - BSA and Azide free
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:** IHC-P, WB **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	ICC/IF: Panc-1 cells.
General notes	ab236074 is the carrier-free version of **ab109495**. 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	UMB4
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab236074 in the following tested applications.

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

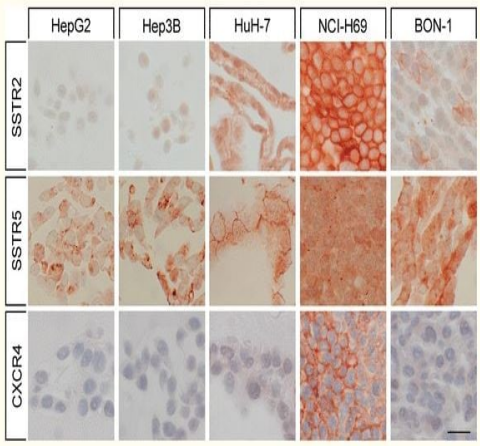
Application	Abreviews	Notes
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval via the pressure cooker method before commencing with IHC staining protocol.
WB		Use at an assay dependent concentration. Predicted molecular weight: 39 kDa.

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] - BSA and Azide free (ab236074)

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

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 cm^2 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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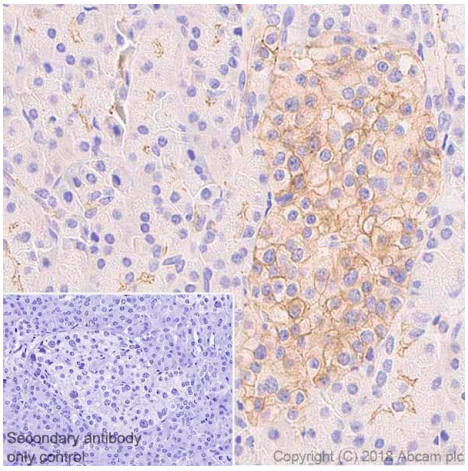
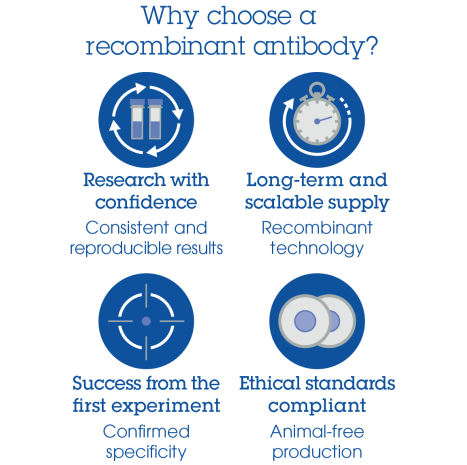
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab109495**).

Perform heat mediated antigen retrieval via the pressure cooker method before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Somatostatin Receptor 5 antibody [UMB4] - BSA and Azide free (ab236074)

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. This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab109495**).



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