Product name: Anti-Somatostatin Receptor 3/SSTR3 antibody [UMB5]

Description: Rabbit monoclonal [UMB5] to Somatostatin Receptor 3/SSTR3

Host species: Rabbit

Tested applications: Suitable for: WB, Flow Cyt
Unsuitable for: IHC-P or IP

Species reactivity: Reacts with: Human

Immunogen: Synthetic peptide within Human Somatostatin Receptor 3/SSTR3 aa 350-450 (C terminal). The exact sequence is proprietary.

Positive control: Somatostatin Receptor 3/SSTR3 transfected 293T cell lysate

General notes: Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.

This product was previously labelled as Somatostatin Receptor 3

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 -20°C.
Storage buffer: Preservative: 0.01% Sodium azide
Constituents: 9% PBS, 40% Glycerol, 0.05% BSA, 50% Tissue culture supernatant

Purity: Tissue culture supernatant
Clonality: Monoclonal
Clone number: UMB5
Isotype: IgG

Applications

Our Abpromise guarantee covers the use of ab137026 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

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<th>Application</th>
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<td>Flow Cyt</td>
<td>1/100 - 1/1000. ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.</td>
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Application notes: Is unsuitable for IHC-P or IP.

Target

Function: Receptor for somatostatins-14 and -28. This receptor is coupled via pertussis toxin sensitive G proteins to inhibition of adenylyl cyclase.
Tissue specificity: Brain, pituitary and pancreas.
Sequence similarities: Belongs to the G-protein coupled receptor 1 family.
Post-translational modifications: Phosphorylated. Phosphorylation increases upon somatostatin binding.
Cellular localization: Cell membrane. Internalized into endoplasmic vesicles upon somatostatin-stimulation.

Images
Overlay histogram showing SHSY-5Y cells stained with ab137026 (red line). The cells were fixed with 4% paraformaldehyde (10 min) and then permeabilized with 0.1% PBS-Tween for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions followed by the antibody (ab137026, 1/1000 dilution) for 30 min at 22°C. The secondary antibody used was Alexa Fluor® 488 goat anti-rabbit IgG (H&L) (ab150077) at 1/2000 dilution for 30 min at 22°C. Isotype control antibody (black line) was rabbit IgG (monoclonal) (0.1μg/1x10^6 cells) used under the same conditions. Unlabelled sample (blue line) was also used as a control. Acquisition of >5,000 events were collected using a 20mW Argon ion laser (488nm) and 525/30 bandpass filter. This antibody gave a positive signal in SHSY-5Y cells fixed with 80% methanol (5 min)/permeabilized with 0.1% PBS-Tween for 20 min used under the same conditions.

**All lanes**: Anti-Somatostatin Receptor 3/SSTR3 antibody [UMB5] (ab137026) at 1/10000 dilution

**Lane 1**: Non-transfected 293T cell lysate
**Lane 2**: Somatostatin Receptor 3/SSTR3 transfected 293T cell lysate

Lysates/proteins at 10 μg per lane.

**Secondary**

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

**Predicted band size**: 46 kDa

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

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- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

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