


Product datasheet

Anti-NPY5R antibody [EPR8382] ab133757

Recombinant RabMAb

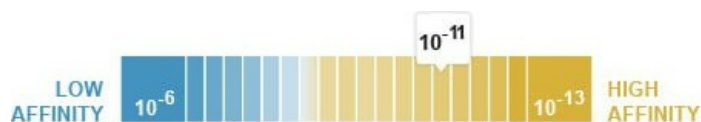
★★★★★ 2 Abreviews 2 References 6 Images

Overview

<b>Product name</b>	Anti-NPY5R antibody [EPR8382]
<b>Description</b>	Rabbit monoclonal [EPR8382] to NPY5R
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> Flow Cyt (Intra), WB, ICC/IF <b>Unsuitable for:</b> IHC-P
<b>Species reactivity</b>	<b>Reacts with:</b> Human <b>Predicted to work with:</b> Mouse, Rat 
<b>Immunogen</b>	Synthetic peptide within Human NPY5R aa 1-100 (extracellular). The exact sequence is proprietary. Database link: <a href="#">Q15761</a>
<b>Positive control</b>	Human hypothalamus lysate, Human fetal brain lysate, Ramos cell lysate, U87 MG cells and cell lysate, Caco2 cell lysate, BxPC 3 cells and cell lysate.
<b>General notes</b>	This product is a recombinant monoclonal antibody, which offers several advantages including: <ul style="list-style-type: none"> <li>- High batch-to-batch consistency and reproducibility</li> <li>- Improved sensitivity and specificity</li> <li>- Long-term security of supply</li> <li>- Animal-free production</li> </ul> For more information <a href="#">see here</a> . Our RabMAb <sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a> .

Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	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.
<b>Dissociation constant (K<sub>D</sub>)</b>	K <sub>D</sub> = 1.80 x 10 <sup>-11</sup> M



[Learn more about K<sub>D</sub>](#)

<b>Storage buffer</b>	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 9% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA, 50% Tissue culture supernatant
<b>Purity</b>	Tissue culture supernatant
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EPR8382
<b>Isotype</b>	IgG

### Applications

**The Abpromise guarantee** Our [Abpromise guarantee](#) covers the use of ab133757 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

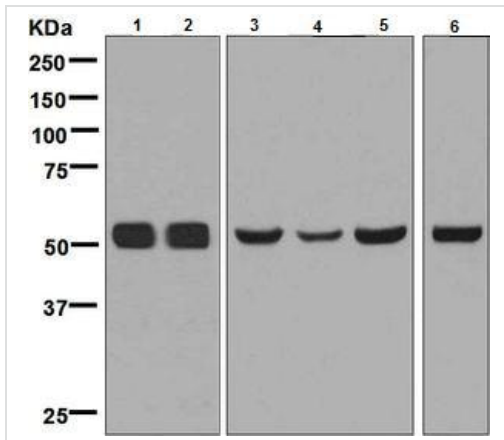
Application	Abreviews	Notes
Flow Cyt (Intra)		1/1000 - 1/10000. <a href="#">ab172730</a> - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
WB	★★★★★ (1)	1/10000 - 1/50000. Detects a band of approximately 52 kDa (predicted molecular weight: 51 kDa).
ICC/IF		1/250 - 1/500.

**Application notes** Is unsuitable for IHC-P.

### Target

<b>Function</b>	Receptor for neuropeptide Y and peptide YY. The activity of this receptor is mediated by G proteins that inhibit adenylate cyclase activity. Seems to be associated with food intake. Could be involved in feeding disorders.
<b>Tissue specificity</b>	Brain; hypothalamus.
<b>Sequence similarities</b>	Belongs to the G-protein coupled receptor 1 family.
<b>Cellular localization</b>	Cell membrane.

### Images



Western blot - Anti-NPY5R antibody [EPR8382] (ab133757)

**All lanes :** Anti-NPY5R antibody [EPR8382] (ab133757) at 1/10000 dilution

**Lane 1 :** Human hypothalamus lysate

**Lane 2 :** Human fetal brain lysate

**Lane 3 :** Ramos cell lysate

**Lane 4 :** U87 MG cell lysate

**Lane 5 :** Caco 2 cell lysate

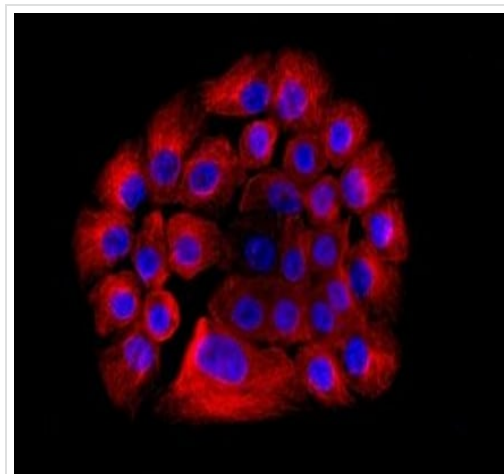
**Lane 6 :** BxPC 3 cell lysate

Lysates/proteins at 10 µg per lane.

### Secondary

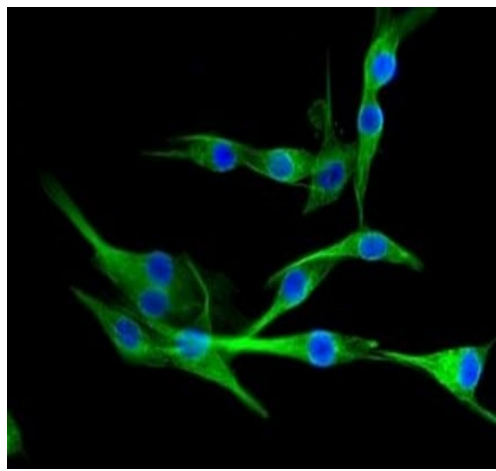
**All lanes :** Goat anti-rabbit HRP conjugated antibody at 1/2000 dilution

**Predicted band size:** 51 kDa



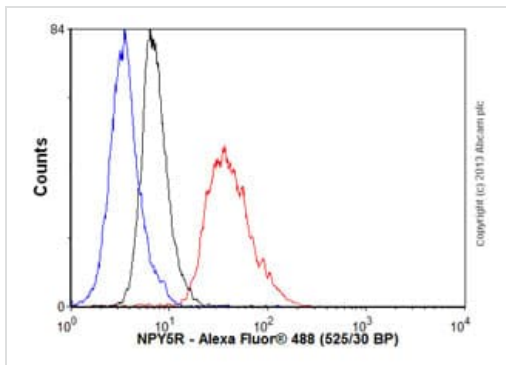
Immunocytochemistry/ Immunofluorescence - Anti-NPY5R antibody [EPR8382] (ab133757)

Immunofluorescent staining of BxPC3 cells labelling NPY5R with ab133757 at 1/250.



Immunocytochemistry/ Immunofluorescence - Anti-NPY5R antibody [EPR8382] (ab133757)

Immunofluorescent staining of U87 MG cells labelling NPY5R with ab133757 at 1/250.



Flow Cytometry (Intracellular) - Anti-NPY5R antibody [EPR8382] (ab133757)

Overlay histogram showing SHSY-5Y cells stained with ab133757 (red line). The cells were fixed with 80% methanol (5 min) and incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab133757, 1/10000 dilution) for 30 min at 22°C. The secondary antibody used was Alexa Fluor<sup>®</sup> 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<sup>6</sup> 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 result in 4% paraformaldehyde (10 min) fixed SHSY-5Y cells used under the same conditions. Please note that Abcam do not have any data for use of this antibody on non-fixed cells. We welcome any customer feedback.

OL-RD Scanning - Anti-NPY5R antibody [EPR8382] (ab133757)

Equilibrium disassociation constant ( $K_D$ )  
 Learn more about  $K_D$

[Click here to learn more about  \$K\_D\$](#)

### Why choose a recombinant antibody?



**Research with confidence**  
Consistent and reproducible results



**Long-term and scalable supply**  
Recombinant technology



**Success from the first experiment**  
Confirmed specificity



**Ethical standards compliant**  
Animal-free production

Anti-NPY5R antibody [EPR8382] (ab133757)

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

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