

## Datasheet: 6732-0150

<b>Description:</b>	SHEEP ANTI HUMAN NEUROPEPTIDE Y RECEPTOR 1
<b>Specificity:</b>	NEUROPEPTIDE Y RECEPTOR 1
<b>Other names:</b>	NPY1R
<b>Format:</b>	Purified
<b>Product Type:</b>	Polyclonal Antibody
<b>Isotype:</b>	Polyclonal IgG
<b>Quantity:</b>	1 ml

## Product Details

### Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit [www.bio-rad-antibodies.com/protocols](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			▪	
Immunohistology - Frozen			▪	
Immunohistology - Paraffin (1)	▪			
ELISA	▪			
Western Blotting	▪			1/100 - 1/1000
Immunofluorescence	▪			

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

**(1) This product requires antigen retrieval using heat treatment prior to staining of paraffin sections. Sodium citrate buffer pH 6.0 is recommended for this purpose.**

<b>Target Species</b>	Human
<b>Species Cross Reactivity</b>	Reacts with: Rat <b>N.B.</b> Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.
<b>Product Form</b>	Purified IgG - liquid
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein G

<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.09% Sodium Azide (NaN <sub>3</sub> )
<b>Approx. Protein Concentrations</b>	IgG concentration 5.0 mg/ml
<b>Immunogen</b>	A synthetic peptide corresponding to amino acids 365 - 378 of human NPY1R, conjugated to KLH. Peptide sequence: KQASPVAFKKINNN
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">P25929</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">4886</a>    NPY1R    <a href="#">Related reagents</a></p>
<b>Synonyms</b>	NPYR, NPYY1
<b>RRID</b>	AB_620417
<b>Specificity</b>	<b>Sheep anti Human Neuropeptide Y Receptor 1 antibody</b> recognizes human neuropeptide Y receptor 1. Neuropeptide Y receptors are a class of G-protein coupled receptors which are activated by the closely related peptide hormones neuropeptide Y, peptide YY and pancreatic polypeptide. These receptors are involved in control of a diverse set of behavioral processes including appetite, circadian rhythm, and anxiety.
<b>Western Blotting</b>	6732-0150 detects a band of approximately 55 kDa in human brain.
<b>References</b>	<ol style="list-style-type: none"> <li>Decressac, M. <i>et al.</i> (2009) Neuropeptide Y stimulates proliferation, migration and differentiation of neural precursors from the subventricular zone in adult mice. <a href="#">Neurobiol Dis. 34: 441-9.</a></li> <li>Ferreira, R. <i>et al.</i> (2010) Neuropeptide Y Modulation of Interleukin-1{beta} (IL-1{beta})-induced Nitric Oxide Production in Microglia. <a href="#">J Biol Chem. 285: 41921-34.</a></li> <li>Thiriet, N. <i>et al.</i> (2011) NPY promotes chemokinesis and neurogenesis in the rat subventricular zone. <a href="#">J Neurochem. 116 (6): 1018-27.</a></li> <li>Baptista, S. <i>et al.</i> (2012) Neuropeptide Y promotes neurogenesis and protection against methamphetamine-induced toxicity in mouse dentate gyrus-derived neurosphere cultures. <a href="#">Neuropharmacology. 62 (7): 2413-23.</a></li> <li>Martins, J. <i>et al.</i> (2015) Activation of Neuropeptide Y Receptors Modulates Retinal Ganglion Cell Physiology and Exerts Neuroprotective Actions <i>In Vitro</i>. <a href="#">ASN Neuro.7(4):1759091415598292.</a></li> <li>Ventura, F. <i>et al.</i> (2020) Protective effect of neuropeptide Y2 receptor activation against methamphetamine-induced brain endothelial cell alterations. <a href="#">Toxicol Lett. 334: 53-59.</a></li> </ol>
<b>Storage</b>	This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.

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<b>Guarantee</b>	12 months from date of despatch
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<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10040 available at: <a href="https://www.bio-rad-antibodies.com/SDS/6732-0150">https://www.bio-rad-antibodies.com/SDS/6732-0150</a> 10040
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<b>Regulatory</b>	For research purposes only
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## Related Products

### Recommended Secondary Antibodies

Rabbit Anti Sheep IgG (H/L) (5184-2304...) [Biotin](#)

### Recommended Useful Reagents

[ANTIGEN RETRIEVAL BUFFER, pH8.0 \(BUF025A\)](#)

<b>North &amp; South America</b>	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: <a href="mailto:antibody_sales_us@bio-rad.com">antibody_sales_us@bio-rad.com</a>	<b>Worldwide</b>	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: <a href="mailto:antibody_sales_uk@bio-rad.com">antibody_sales_uk@bio-rad.com</a>	<b>Europe</b>	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: <a href="mailto:antibody_sales_de@bio-rad.com">antibody_sales_de@bio-rad.com</a>
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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://bio-rad-antibodies.com/datasheets)  
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