

Datasheet: 6732-0150

BATCH NUMBER 1608

Description:	SHEEP ANTI HUMAN NEUROPEPTIDE Y RECEPTOR 1
Specificity:	NEUROPEPTIDE Y RECEPTOR 1
Other names:	NPY1R
Format:	Purified
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	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.

	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.

Target Species	Human
Species Cross Reactivity	<p>Reacts with: Rat</p> <p>N.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.</p>
Product Form	Purified IgG - liquid

Preparation	Purified IgG prepared by affinity chromatography on Protein G
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃)
Approx. Protein Concentrations	IgG concentration 5.0 mg/ml
Immunogen	<p>A synthetic peptide corresponding to amino acids 365 - 378 of human NPY1R, conjugated to KLH.</p> <p>Peptide sequence: KQASPVAFKKINNN</p>
External Database Links	<p>UniProt:</p> <p>P25929 Related reagents</p> <p>Entrez Gene:</p> <p>4886 NPY1R Related reagents</p>
Synonyms	NPYR, NPYY1
RRID	AB_620417
Specificity	<p>Sheep anti Human Neuropeptide Y Receptor 1 antibody 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.</p>
Western Blotting	6732-0150 detects a band of approximately 55 kDa in human brain.
References	<ol style="list-style-type: none"> 1. Ferreira, R. <i>et al.</i> (2010) Neuropeptide Y Modulation of Interleukin-1{beta} (IL-1{beta})-induced Nitric Oxide Production in Microglia. J Biol Chem. 285: 41921-34. 2. Decressac, M. <i>et al.</i> (2009) Neuropeptide Y stimulates proliferation, migration and differentiation of neural precursors from the subventricular zone in adult mice. Neurobiol Dis. 34: 441-9. 3. 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>. ASN Neuro. 7 (4) pii: 1759091415598292. 4. Baptista, S. <i>et al.</i> (2012) Neuropeptide Y promotes neurogenesis and protection against methamphetamine-induced toxicity in mouse dentate gyrus-derived neurosphere cultures. Neuropharmacology. 62 (7): 2413-23. 5. Thiriet, N. <i>et al.</i> (2011) NPY promotes chemokinesis and neurogenesis in the rat subventricular zone. J Neurochem. 116 (6): 1018-27. 6. Ventura, F. <i>et al.</i> (2020) Protective effect of neuropeptide Y2 receptor activation against methamphetamine-induced brain endothelial cell alterations. Toxicol Lett. 334: 53-59.

Storage	<p>Store at +4°C or at -20°C if preferred.</p> <p>Storage in frost-free freezers is not recommended.</p> <p>This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.</p>
Guarantee	12 months from date of despatch
Health And Safety Information	<p>Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/6732-0150</p> <p>10040</p>
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

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

Recommended Useful Reagents

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

North & South America	<p>Tel: +1 800 265 7376</p> <p>Fax: +1 919 878 3751</p> <p>Email: antibody_sales_us@bio-rad.com</p>	Worldwide	<p>Tel: +44 (0)1865 852 700</p> <p>Fax: +44 (0)1865 852 739</p> <p>Email: antibody_sales_uk@bio-rad.com</p>	Europe	<p>Tel: +49 (0) 89 8090 95 21</p> <p>Fax: +49 (0) 89 8090 95 50</p> <p>Email: antibody_sales_de@bio-rad.com</p>
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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://www.bio-rad-antibodies.com/datasheets)
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Printed on 01 Mar 2024