**Product datasheet**

**Anti-Neuropeptide Y antibody ab30914**

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**Overview**

**Product name**  
Anti-Neuropeptide Y antibody

**Description**  
Rabbit polyclonal to Neuropeptide Y

**Host species**  
Rabbit

**Tested applications**  
Suitable for: IHC-P

**Species reactivity**  
Reacts with: Mouse, Rat, Human, Common marmoset  
Predicted to work with: Sheep, Rabbit, Chicken, Guinea pig, Cow, Pigeon, Pig, Zebrafish, Rhesus monkey

**Immunogen**  
Synthetic peptide corresponding to Pig Neuropeptide Y aa 1 to the C-terminus conjugated to keyhole limpet haemocyanin.  
(Peptide available as ab32971)

**Properties**

**Form**  
Liquid

**Storage instructions**  
Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.

**Storage buffer**  
pH: 7.40  
Preservative: 0.02% Sodium azide  
Constituent: PBS

Batches of this product that have a concentration < 1mg/ml may have BSA added as a stabilising agent. If you would like information about the formulation of a specific lot, please contact our scientific support team who will be happy to help.

**Purity**  
Immunogen affinity purified

**Clonality**  
Polyclonal

**Isotype**  
IgG

**Applications**

Our Abpromise guarantee covers the use of ab30914 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.
NPY is implicated in the control of feeding and in secretion of gonadotrophin-release hormone.

One of the most abundant peptides in the nervous system. Also found in some chromaffin cells of the adrenal medulla.

Belongs to the NPY family.

Secreted.

Immunohistochemical detection of Neuropeptide Y using ab30914 on formaldehyde-fixed paraffin-embedded rat brain sections. The image shows NPY staining in the cerebellum and frontal cortex of the rat brain. Formaldehyde antigen retrieval step: heat mediated in citric acid pH6 buffer. Blocking step: 1% BSA for 10 mins at room temperature. ab30914 incubated at 1/1000 for 2 hours in TBS/BSA/azide. Secondary Antibody: anti-rabbit IgG conjugated to biotin (1/200)
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Neuropeptide Y antibody (ab30914)

This image is courtesy of an abreview submitted by Carl Hobbs, King's College London, United Kingdom

Immunohistochemical detection of Neuropeptide Y antibody (ab30914) on formaldehyde fixed paraffin-embedded human foetal wall sections. Antigen retrieval step: Heat mediated. Buffer: Citric acid pH 6. Permeabilization: None. Blocking step: 1% BSA for 10 mins at 21°C. Primary antibody incubated at 1/1500 for 2 hours at 21°C in TBS/BSA/azide. Abcam's EXPOSE detection kit was used: ab80436. NB: In the submitted image arrowheads indicate positive features: red for ganglion cells in the Submucosa (Meissner’s plexus), green for ganglion cells in the Muscularis externa (Auerbach’s plexus). There is also a diffuse fine positivity throughout the smooth muscle cells of the externa.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Neuropeptide Y antibody (ab30914)

IHC image of Neuropeptide Y antibody staining in a section of formalin-fixed paraffin-embedded human cerebral cortex.* tissue performed on a Leica BOND™ system using the standard protocol. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6, epitope retrieval solution 1) for 20mins. The section was then incubated with ab30914, 1ug/ml, for 15 mins at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times.

*Tissue obtained from the Human Research Tissue Bank, supported by the NIHR Cambridge Biomedical Research Centre

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