abcam

Product datasheet

Anti-Met Enkephalin antibody ab22620

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Overview

Product name	Anti-Met Enkephalin antibody
Description	Rabbit polyclonal to Met Enkephalin
Host species	Rabbit
Specificity	Recognizes methionine enkephalin in a wide range of species.
Tested applications	**Suitable for:** ICC/IF, IHC-P
Species reactivity	**Reacts with:** Human
Immunogen	Synthetic peptide corresponding to Met Enkephalin conjugated to keyhole limpet haemocyanin (Glutaraldehyde). The conjugate was dialysed to remove excess conjugating agent prior to immunisation. Sequence: YGGF M Database link: **P01210** Run BLAST with Run BLAST with
Positive control	Typical test tissues included rat and human brain, rat spinal cord, pig duodenum, guinea pig ileum (enteric nervous system) and human phaeochromocytoma (adrenomedullary tumour)
General notes	The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	Preservative: 0.01% Sodium azide Constituent: Whole serum
Purity	Whole antiserum

Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab22620 in the following tested applications.

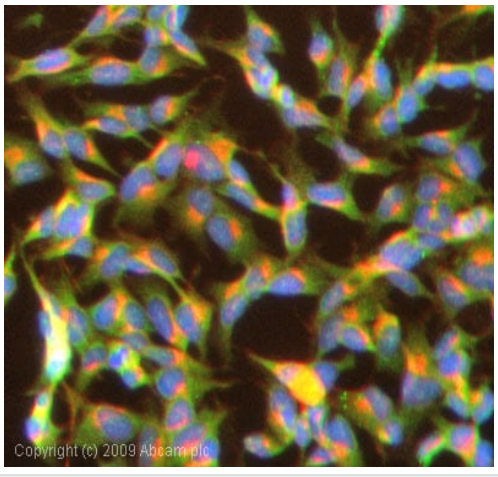
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ICC/IF		1/1000.
IHC-P		Use at an assay dependent concentration.

Target

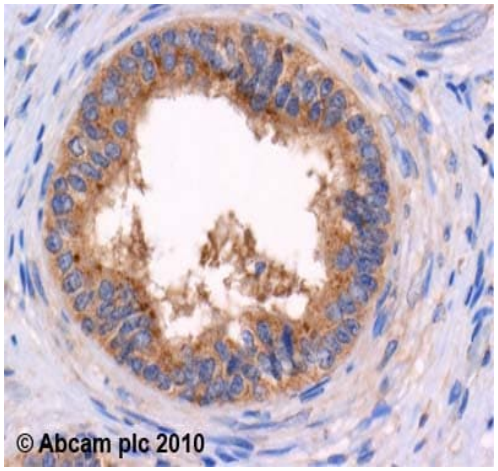
Function	Met- and Leu-enkephalins compete with and mimic the effects of opiate drugs. They play a role in a number of physiologic functions, including pain perception and responses to stress. PENK(114-133) and PENK(237-258) increase glutamate release in the striatum. PENK(114-133) decreases GABA concentration in the striatum.
Sequence similarities	Belongs to the opioid neuropeptide precursor family.
Post-translational modifications	The N-terminal domain contains 6 conserved cysteines thought to be involved in disulfide bonding and/or processing.
Cellular localization	Secreted.

Images



Immunocytochemistry/ Immunofluorescence - Anti-Met Enkephalin antibody (ab22620)

ICC/IF image of ab22620 stained SHSY5Y cells. The cells were 100% methanol fixed (5 min) and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab22620, 1/1000 dilution) overnight at +4°C. The secondary antibody (green) was Alexa Fluor® 488 goat anti-rabbit IgG (H+L) used at a 1/1000 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Met Enkephalin antibody (ab22620)

ab22620 (4µg/ml) staining met enkephalin in human testis using an automated system (DAKO Autostainer Plus). Using this protocol there is cytoplasmic staining of seminal vesicles.
Sections were rehydrated and antigen retrieved with the Dako 3 in 1 AR buffer EDTA pH 9.0 in a DAKO PT link. Slides were peroxidase blocked in 3% H_2O_2 in methanol for 10 mins. They were then blocked with Dako Protein block for 10 minutes (containing casein 0.25% in PBS) then incubated with primary antibody for 20 min and detected with Dako Envision Flex amplification kit for 30 minutes. Colorimetric detection was completed with Diaminobenzidine for 5 minutes. Slides were counterstained with Haematoxylin and coverslipped under DePeX. Please note that, for manual staining, optimization of primary antibody concentration and incubation time is recommended. Signal amplification may be required.

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