

Product datasheet

Anti-Dynorphin A antibody ab40647

1 Image

Overview

Product name	Anti-Dynorphin A antibody
Description	Rabbit polyclonal to Dynorphin A
Host species	Rabbit
Specificity	This antibody shows specificity of: Dynorphin A (1-13) 100%; [Leu5]-Enkephalin 0%; [Met5]-Enkephalin 0% and b-Endorphin (human) 0%.
Tested applications	Suitable for: IHC-P, ELISA, RIA, ICC
Species reactivity	Reacts with: Human, Pig Predicted to work with: Mouse, Rat, Guinea pig, Cow, Chimpanzee, Zebrafish, Baboon, Cynomolgus monkey, Macaque monkey, Rhesus monkey, Gorilla 
Immunogen	Synthetic peptide: YGGFLRRIRPKLK , corresponding to amino acids 1-13 of Dynorphin A Run BLAST with Run BLAST with

Properties

Form	Liquid
Storage instructions	Store at +4°C short term (1-2 weeks) (add antibacterial agent). Aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Storage buffer	Constituent: Whole serum
Purity	Whole antiserum
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab40647** 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
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
ELISA		Use at an assay dependent concentration. Cell culture filtrate or whole cells directly coated onto microtitre wells can be used.
RIA		Use at an assay dependent concentration. With this antibody, we have found that blocking with 5% goat or donkey serum significantly reduces background as compared to BSA or milk.
ICC		Use at an assay dependent concentration.

Target

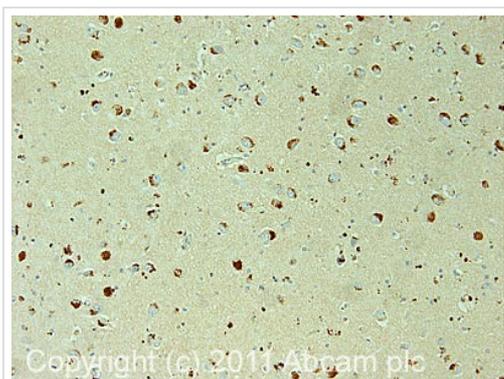
Relevance

Dynorphins are a class of peptides produced by many different populations of neurons, which has some opiate like activity. It is thus classed as an endogenous opioid peptide. The dynorphins, which include dynorphin A, dynorphin B, alpha and beta neoendorphin, and big dynorphin, are all the products of a single gene, 'preprodynorphin'. Dynorphin is produced in many different parts of the brain, including the hypothalamus, the hippocampus and the spinal cord, and has many different physiological actions, depending upon its site of production. Dynorphin is involved in modulating responses to several psychoactive substances, including cocaine. As such, it may help some individuals against addiction. Blocking dynorphin may help alleviate depression.

Cellular localization

Secreted

Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Dynorphin A antibody (ab40647)

IHC image of ab40647 staining in human hippocampus formalin fixed paraffin embedded tissue section, performed on a Leica Bond™ system using the standard protocol F. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20 mins. The section was then incubated with ab40647, 1/1000 dilution, 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.

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