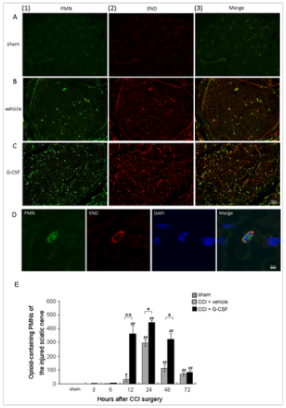
Beta Endorphin (POMC) Antibody

PRODUCT OVERVIEW

Product Name	beta endorphin (POMC), Antibody
Full Product Name	beta endorphin, Antibody, Rabbit
Product Gene Name	anti-POMC antibody
Species Reactivity	Rat
Preparation and Storage	Store at 4-8 degrees
Molecular Weight	3,438 Da
Type Info	Rabbit IgG
Immunogen	YGGFMTSEKSQTPLVTLFKNAIIKNAYKKGE
Product Categories/Family for anti-POMC antibody	beta-Endorphin
Applications Tested/Suitable for anti-POMC antibody	Immunofluorescence (IF), Immunohistochemistry (IHC)
Related Product Information for anti-POMC antibody	b-lipotropin is a 90 amino acid polypeptide that is the carboxy-terminal fragment of POMC. It stimulates melanocytes to produce melanin, and can also be cleaved into smaller peptides. In humans, g-lipotropin, a-MSH, b-MSH, g-MSH, a-endorphin, b-endorphin, g-endorphin, and met-enkephalin are all possible fragments of b-lipotropin. b-lipotropin also performs lipid-mobilizing functions such as lipolysis and steroidogenesis.
Other Notes	Small volumes of anti-POMC antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for POMC purchase	MBS555202 is an antibody targeting POMC. Also known as beta endorphin, Antibody, Rabbit. Reactive in Rat.



Testing Data of anti-POMC antibody



Testing Data of anti-POMC antibody

Images: G-CSF treatment increases the number of migrated b-endorphin-containing PMN cells in injured nerves. (A-C) Confocal laser scanning microscopy of PMN cells and b-endorphin peptides in the right sciatic nerve of vehicle-treated sham rats (A1-3), vehicle-treated CCI rats (B1-3), and G-CSF treated CCI rats (C1-3) 12 h after CCI, respectively. No apparent PMN cells or b-endorphin peptides were observed in the vehicle-treated sham operation rats. However, at 12 h, the count of b-endorphin-containing PMN cells was significantly higher in the G-CSF-treated CCI rats than in the vehicle-treated CCI rats. Scale bar: 100 mum. (D) Confocal high-power field laser scanning pictures showing a PMN cell with a typical segmented nucleus, which stained positive for b-endorphin peptides. Green: PMN cells; red: b-endorphin (END)-containing cells; blue (DAPI): cell nuclei. Scale bar: 10 mum. (E) The number of b-endorphin-containing PMN cells per section as calculated at different time points. The count of b-endorphin-containing PMN cells was higher in the CCI rats treated with G-CSF (black bars) compared to those treated with vehicle (grey bars) between 12-48 h after nerve injury. Data are shown as the means±SEM, n = 5 per group; one-way ANOVA, *p<0.05, **p<0.01: CCI + G-CSF group compared to CCI + vehicle group; #p<0.05, ##p<0.01: CCI + G-CSF or CCI + vehicle group compared to vehicle-treated sham operation control. doi:10.1371/journal.pone.0043680.g004

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for POMC. It may not necessarily be applicable to this product.

NCBI GI #	119332
NCBI Accession #	P01203.1
NCBI Official Full Name	Beta-endorphin
UniProt Protein Name	Beta-endorphin
Protein Family	Beta-endorphin
UniProt Gene Name	POMC
UniProt Entry Name	COLI_CAMDR
UniProt Comments for POMC	Beta-endorphin and Met-enkephalin are endogenous opiates.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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