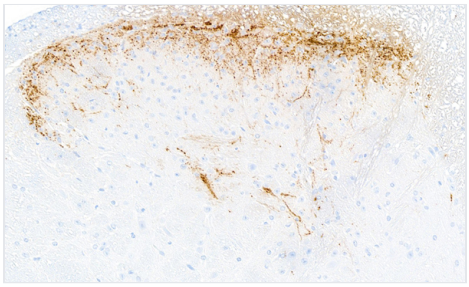
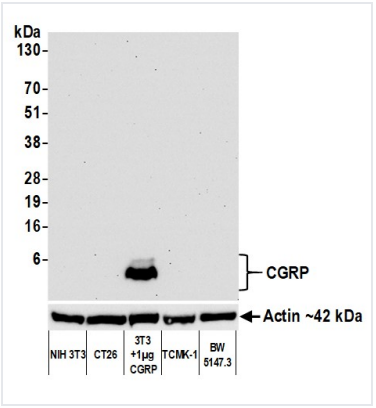
CGRP Recombinant Antibody – Rabbit Monoclonal

PRODUCT OVERVIEW

Product Name	CGRP, Recombinant Antibody
Full Product Name	Rabbit anti-CGRP Recombinant Monoclonal Antibody [BLR159J]
Product Gene Name	CGRP recombinant antibody
Product Synonym Gene Name	Calca
Product Synonym Names	CGRP1; alpha-type CGRP; Ctn; Ct; CGRP-I; CGRP-1; calcitonin gene-related peptide I; calcitonin gene-related peptide 1; Calc1; Calc; CA; Cgrp; Calcitonin gene-related peptide 1;Calcitonin; calcitonin/calcitonin-related polypeptide, alpha
Clonality	Monoclonal
Clone Number	BLR159J
Host	Rabbit
Species Reactivity	Mouse
Form/Format	Liquid. Whole IgG. Borate Buffered Saline (BBS) pH 8.2 with 0.1% BSA and 0.09% Sodium Azide
Purity/Purification	Purified
Concentration	250ug/ml (lot specific)
Preparation and Storage	Store at 2-8 degree C Shelf Life: 1 year from date of receipt
Molecular Weight	15,141 Da
3D Structure	ModBase 3D Structure for Q99JA0
Immunogen	Between 78 and C-terminus
Conjugation	Unconjugated
Product Categories/Family for CGRP recombinant antibody	Primary Antibodies
Applications Tested/Suitable for CGRP recombinant antibody	Western Blot (WB), Immunohistochemistry (IHC)
Application Notes for CGRP recombinant antibody	WB: 1:1000 IHC: 1:100 to 1:500. Epitope retrieval with citrate buffer pH6.0 is recommended for FFPE tissue sections.
Related Product Information for CGRP recombinant antibody	CGRP induces vasodilation. It dilates a variety of vessels including the coronary, cerebral and systemic vasculature. Its abundance in the CNS also points toward a neurotransmitter or neuromodulator role. [taken from the Universal Protein Resource (UniProt) www.uniprot.org/uniprot/Q99JA0].
Other Notes	Small volumes of CGRP recombinant 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 CGRP purchase	MBS3906472 is a recombinant antibody targeting CGRP. Also known as Rabbit anti-CGRP Recombinant Monoclonal Antibody [BLR159J]. Reactive in Mouse. Host: Rabbit.



Immunohistochemistry (IHC) of CGRP recombinant antibody
Detection of mouse CGRP1 in FFPE mouse spinal cord by immunohistochemistry. Antibody: Rabbit anti-CGRP1 recombinant monoclonal antibody (MBS3906472 lot 1). Secondary: HRP-conjugated goat anti-rabbit IgG (MBS3900468). Substrate: DAB.



Western Blot (WB) of CGRP recombinant antibody
Detection of mouse CGRP by western blot. Samples: Whole cell lysate (50 ug) from NIH 3T3, CT26, NIH 3T3 + 1 ug purified mouse CGRP, TCMK-1, and BW5147.3 cells prepared using NETN lysis buffer. Antibody: Rabbit anti-CGRP recombinant monoclonal antibody (MBS3906472 lot 1) used at 1:1000. Secondary: HRP-conjugated goat anti-rabbit IgG (MBS3900344). Detection: Chemiluminescence with an exposure time of 30 seconds. Lower Panel: Rabbit anti-Actin recombinant monoclonal antibody (MBS3906304).

ADDITIONAL DETAILS

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

NCBI GI #	76880463
NCBI GeneID	12310
NCBI Accession #	NP_001029126.1
UniProt Primary Accession #	Q99JA0
UniProt Secondary Accession #	P70160
UniProt Related Accession #	P70160; Q99JA0
GenBank Nucleotide #	NM_001033954.3
NCBI Official Full Name	calcitonin gene-related peptide 1 isoform Cgrp preproprotein
NCBI Official Synonym Full Names	calcitonin/calcitonin-related polypeptide, alpha
NCBI Official Symbol	Calca
NCBI Official Synonym Symbols	CA; Ct; Ctn; Calc; Cgrp; CGRP1; Calc1; CGRP-1
UniProt Protein Name	Calcitonin gene-related peptide 1
UniProt Synonym Protein Names	Alpha-type CGRP; Calcitonin gene-related peptide I; CGRP-I
Protein Family	Calcitonin gene-related peptide
UniProt Gene Name	Calca
UniProt Synonym Gene Names	Calc; CGRP-I
UniProt Entry Name	CALCA_MOUSE
NCBI Protein Information	calcitonin gene-related peptide 1
NCBI Summary for CGRP	This gene encodes the peptide hormones calcitonin, calcitonin gene-related peptide (CGRP) and katacalcin. Alternative splicing of the mRNA results in multiple variants that encode either calcitonin or CGRP preproproteins. Post-translational processing of the calcitonin and CGRP propeptides results in either calcitonin and katacalcin, or CGRP, respectively. Calcitonin and katacalcin modulate calcium levels in the blood stream. CGRP can function as a vasodilator and play a role in the transmission of pain. The human homolog of CGRP was found to have antimicrobial activity. [provided by RefSeq, Mar 2015]

UniProt Comments for CGRP	CALCA iso3: Calcitonin causes a rapid but short-lived drop in the level of calcium and phosphate in blood by promoting the incorporation of those ions in the bones. Belongs to the calcitonin family. 3 isoforms of the human protein are produced by alternative splicing. Protein type: Secreted; Secreted, signal peptide Cellular Component: axon; cell soma; cytoplasm; extracellular region; extracellular space; intracellular; neuron projection; nucleus; terminal button Molecular Function: calcitonin receptor binding; receptor binding Biological Process: adenylate cyclase activation; cellular calcium ion homeostasis; detection of temperature stimulus involved in sensory perception of pain; feeding behavior; G-protein signaling, adenylate cyclase activating pathway; inflammatory response; negative regulation of blood pressure; negative regulation of neurological process; negative regulation of ossification; negative regulation of smooth muscle contraction; neuromuscular junction development; neuropeptide signaling pathway; positive regulation of cell adhesion; positive regulation of ossification; regulation of blood pressure; regulation of heart contraction; regulation of heart rate; regulation of systemic arterial blood pressure by neurological process; response to heat; response to pain; sperm capacitation; vasodilation; vasodilation of artery during baroreceptor response to increased systemic arterial blood pressure
Research Articles on CGRP	**1.** SHH may affect alveolar bone healing by interacting with CGRP-positive sensory neurons and thus regulate the socket's healing process after tooth extraction.
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