Anti-Calcitonin Gene Related Peptide (CGRP) Antibody

Catalog #: 311-CGRP  |  Size: 100 µl  
Isotype: IgG2α  |  Clone: 4901

Cite this Antibody: PhosphoSolutions Cat# 311-CGRP, RRID:AB_2492054

Host  |  Applications  |  Species Tested  |  Species Assumed*  
Mouse  |  ICC 1:50-100  |  H, R  |  Most Mammals  
*Not recommended for WB

Product Description: Protein G purified mouse monoclonal antibody.

Biological Significance: Calcitonin Gene Related Peptide [CGRP] is a 37 amino acid peptide and is the most potent endogenous vasodilator currently known (Brain et al., 1985). CGRP is primarily produced in nervous tissue, however, its receptors are expressed throughout the body. CGRP is also strongly implicated in the vasodilatory effect of endogenous cannabinoid anandamide in the brain. This effect was found to be antagonized by capsazepine. CGRP is also currently a major target of research in regards to factors affecting the onset of migraine headaches (Edvinsson L., 2003). CGRP antibodies have been used successfully in immunoneutralization (Wong et al., 1993).

Antigen: Rat alpha-CGRP.

Antibody Specificity: Specific for Calcitonin Gene Related Peptide. Also recognizes rat beta-CGRP and human alpha-CGRP (10-fold less sensitivity compared to rat alpha-CGRP). Suggested positive controls are dorsal root ganglia, pancreas and gut.

Specificity Notes: This antibody is an excellent tool for IHC and for multiple labeling immunofluorescence of peripheral tissue like stomach, intestine, pancreas, sensory ganglia, and all the regions of the body that are innervated by primary afferent neurons as well as central nervous tissue.

Purification Method: Protein G purified culture supernatant.

Quality Control Tests: ICC performed on each lot.

Packaging: 100 µl in 10 mM HEPES (pH 7.5), 150 mM NaCl, 100 µg BSA per ml and 50% glycerol.

Storage and Stability: Shipped on blue ice. Storage at -20°C is recommended, as aliquots may be taken without freeze/thawing due to presence of 50% glycerol. Stable for at least 1 year at -20°C.

Immunostaining of CGRP (red) in cryopreserved DRG neurons grown on coverslips. 40xmag. Green staining is PGP9.5. Yellow staining is the colocalization of CGRP and PGP9.5. Cells were obtained and photo was provided courtesy of QBMCellScience.
General References:

