



Anti-CALCR monoclonal antibody, clone 30/7-9B4 (CABT-48599MH)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview

Mouse anti Human Calcitonin Receptor antibody, clone 30/7-9B4 recognizes the human calcitonin receptor, a 508 amino acid multi pass transmembrane membrane glycoprotein with seven transmembrane domains, coupled to G protein messenger systems. The calcitonin receptor is expressed in kidney, central and peripheral nervous systems and on osteoclasts. It is also expressed in a number of tissues during the development of the embryo and may be important in foetal morphogenesis. Clone MAb 9B4 recognises an epitope within the extra-cellular domain, the epitope is common to both C1a and C1b human isoforms. Calcitonin receptor expression is elevated in the inflammatory cells associated with diseased arteries and atherosclerotic plaques expression has also been noted within malignant cells of glioblastoma multiforme. Several different isoforms of the calcitonin receptor, a result of alternative splicing and promotor usage have been identified. Mouse anti Human Calcitonin Receptor antibody, clone 30/7-9B4 was raised against the canonical isoform 1 but has been shown to bind to a truncated isoform lacking the N-terminal region of the receptor. The calcitonin receptor can associate with RAMP1, 2 and 3 to form discrete receptors for amylin Mouse anti human calcitonin receptor antibody, clone 30/7-9B4 has been successfully used for the demonstrating calcitonin receptor on human cryostat tissue section by immunohistochemistry and western blotting.

Specificity	CALCR
Immunogen	Synthetic peptide derived from sequence situated on the extra-cellular domain of human
Isotype	IgG2a
Source/Host	Mouse
Species Reactivity	Human, Bovine, Rabbit
Clone	30/7-9B4

Conjugate	Unconjugated
Applications	ELISA; FC; IF; IHC-P; WB
Format	Purified IgG - liquid
Size	100 µg
Preservative	See individual product datasheet
Storage	in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

GENE INFORMATION

Gene Name	CALCR calcitonin receptor [Homo sapiens (human)]
Official Symbol	CALCR
Synonyms	CALCR; calcitonin receptor; CRT; CTR; CT-R; CTR1;
Entrez Gene ID	799
Protein Refseq	NP_001158209
Chromosome Location	7q21.3
Pathway	Calcitonin-like ligand receptors; Class B/2 (Secretin family receptors); Defective ACTH causes Obesity and Pro-opiomelanocortinin deficiency (POMCD); Disease; G alpha (s) signalling events; GPCR downstream signaling; GPCR ligand binding; GPCRs, Class B Secretin-like;
Function	calcitonin binding; NOT calcitonin binding; calcitonin receptor activity; protein binding; protein transporter activity; receptor activity;