

Anti-CALCR hIgG1 Antibody(CN74)

Product information

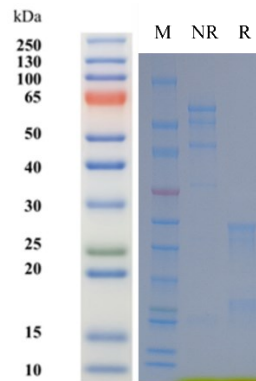
GM-88223AB-10	10 µg
GM-88223AB-100	100 µg
GM-88223AB-1000	1 mg

Antibody Information

Species Reactivity	Human;
Clone	CN74
Source/Isotype	Human IgG1(N297A/REEM, deltaK), Lambda2
Application	/
Specificity	Detects CALCR
Gene	CALCR
Other Names	CRT, CT-R, CTR, CTR1
Gene ID	799 (human)
Background	The CALCR (calcitonin receptor) gene, a member of the G protein-coupled receptor family, is located in the region of human chromosome 7 q21.3 and encodes a transmembrane protein that is a key receptor for calcitonin and Amylin. Its core functions include maintaining calcium homeostasis, regulating osteoclast-mediated bone resorption, and participating in energy metabolism and satiety regulation by forming heterodimeric complexes (such as AMY1-AMY3) with receptor activity modifying proteins (RAMPs) . In terms of disease association, CALCR gene polymorphism is closely related to osteoporosis and bone mineral density variation. Its mutation is also significantly associated with malignant progression of glioma and shortened survival time of patients. In addition, CALCR also plays an important role in the progression of gastric cancer. The team at the Chinese Academy of Medical Sciences confirmed that CALCR interacts with anthrax toxin receptor 1(ANTXR1) to activate the Akt signaling pathway, which promotes tumor growth and metastasis, its high expression is associated with poor prognosis of gastric cancer patients. In the field of metabolism, CALCR, as the core subunit of Amylin receptor, has become a potential target for the treatment of obesity and diabetes by regulating energy expenditure and fat metabolism.
Storage	Store at 2-8°C short term (1-2 weeks).Store at ≤ -20°C long term. Avoid repeated freeze-thaw.
Formulation	Supplied as a 0.2 µm filtered solution of PBS, pH7.2-7.4.
Endotoxin	< 1 EU/mg, determined by LAL gel clotting assay

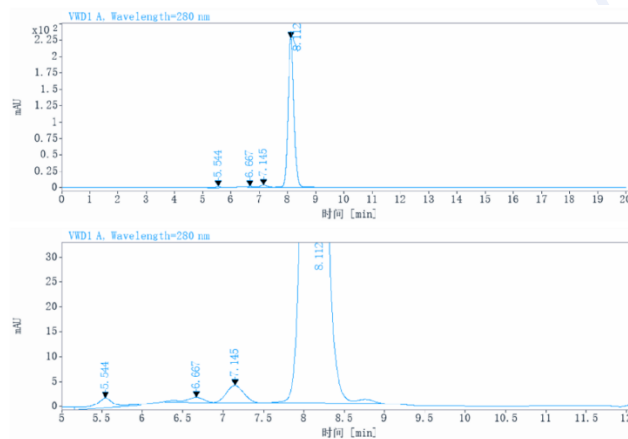
Version:3.1

SDS-PAGE



On SDS-PAGE under reducing (R)/non-reducing(N-R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

SEC-HPLC



The purity of this product is more than 95% verified by SEC-HPLC.