Anti-Human NPR3 Monoclonal Antibody
Product Code: CABh-25373
Clone: 7B12-C4
For Research Use Only (RUO)

Alternate Names	Natriuretic peptide receptor C/guanylate cyclase C, atrionatriuretic peptide receptor C, ANP-C, ANPR-C, ANPRC, C5orf23, GUCY2B, NPR-C, NPRC, BOMOS
Isotype	IgG1
Conjugate	Unconjugated
Background	Human atrial natriuretic peptide receptor 3 (NPR3), is also called natriuretic peptide receptor C/guanylate cyclase C, atrionatriuretic peptide receptor C, C5orf23, GUCY2B, and BOMOS. NPR3 is highly expressed in kidney tissues. Binding of NPR3 to osteocrin is involved in maintenance of blood pressure and extracellular fluid volume. The interaction of NPR3 and osteocrin is a recent focus of possible therapeutics to treat diseases such as congestive heart failure. Human NPR3 protein has ~99% and ~91% sequence homology with macaque and mouse NPR3, respectively.

Product Details

Specificity	Human atrial natriuretic peptide receptor 3/NPR3
Antibody Type	Monoclonal antibody
Host Species	Mouse
Immunogen	NPR3 N-terminus, the exact sequence of the immunogen is proprietary.; UniProt # P17342
Formulation / Storage buffer	0.22µm filtered PBS, pH 7.4
Shipping	Frozen Dry Ice
Purification	Affinity Enrichment
Stability & Storage	-80'C
Verified Application	ELISA, SPR
Recommended Usage	ELISA: starting concentration 1 µg/mL. LSPR: Recommended maximum concentration, 100 nM.

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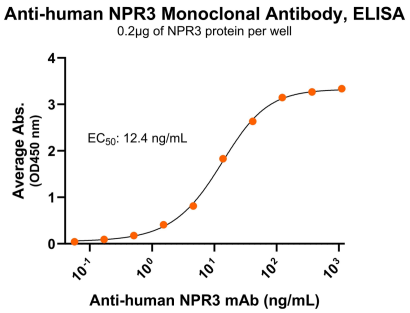
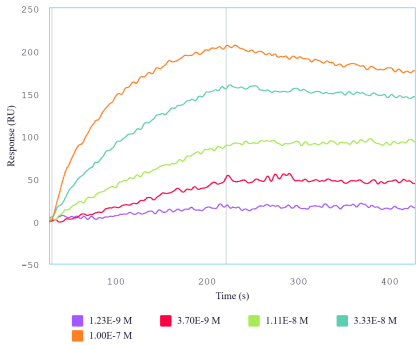
Bioactive Data, Detection of Antigen by:

ELISA



Immobilized human NPR3 fragment at 2 μg/mL (100 μL/well) can bind Mouse Anti-Human NPR3 Monoclonal Antibody (Cat. No. CABh-25373) with half maximal effective concentration (EC50) range of 6.2-24.8 ng/mL (QC tested).

SPR



Immobilized human NPR3 peptide can bind Mouse Anti-Human NPR3 Monoclonal Antibody (Cat. No. CABh-25373) with a KD of 0.5-2 nM as determined by LSPR (Nicoya Alto).

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Antigen Details

Structure	7-transmembrane protein, G protein-coupled receptor (GPCR)
Function	maintenance of blood pressure and extracellular fluid volume
Ligand / Receptor	osteocrin
Cell Type	High expression in kidney tissues with variable expression in other tissues such as the brain, heart, and gut.
Molecular Family	G protein-coupled receptor
Gene ID	P17342