



Anti-NPR2 (aa 131-230) polyclonal antibody (DPAB-DC2049)

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

PRODUCT INFORMATION

Antigen Description	This gene encodes natriuretic peptide receptor B, one of two integral membrane receptors for natriuretic peptides. Both NPR1 and NPR2 contain five functional domains: an extracellular ligand-binding domain, a single membrane-spanning region, and intracellularly a protein kinase homology domain, a helical hinge region involved in oligomerization, and a carboxyl-terminal guanylyl cyclase catalytic domain. The protein is the primary receptor for C-type natriuretic peptide (CNP), which upon ligand binding exhibits greatly increased guanylyl cyclase activity. Mutations in this gene are the cause of acromesomelic dysplasia Maroteaux type.
Immunogen	NPR2 (AAH34917, 131 a.a. ~ 230 a.a) partial recombinant protein with GST tag. The sequence is AKNDHYRTLVRTGPSAPKLGEFVVTLHGHNWTARAALLYLDARTDDRPHYFTIEGVFEA LQGSNLSVQHQQVYAREPGGPEQATHFIRANGRIVYICGPL
Source/Host	Mouse
Species Reactivity	Human
Conjugate	Unconjugated
Applications	WB (Recombinant protein), ELISA,
Size	50 µl
Buffer	50 % glycerol
Preservative	None
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION

Gene Name	NPR2 natriuretic peptide receptor 2 [Homo sapiens (human)]
Official Symbol	NPR2
Synonyms	NPR2; natriuretic peptide receptor 2; AMDM; ANPb; NPRB; ANPRB; GUC2B; NPRBi; GUCY2B; atrial natriuretic peptide receptor 2; GC-B; ANP-B; NPR-B; ANPR-B; guanylate cyclase B; atrial natriuretic peptide B-type receptor; atrial natriuretic peptide receptor type B; natriuretic peptide receptor B/guanylate cyclase B (atrionatriuretic peptide receptor B);
Entrez Gene ID	4882
Protein Refseq	NP_003986
UniProt ID	P20594
Chromosome Location	9p21-p12
Pathway	Oxytocin signaling pathway; Vascular smooth muscle contraction;
Function	ATP binding; GTP binding; guanylate cyclase activity; hormone binding