PRODUCT INFORMATION

Target	ANPRB
Synonyms	AMDM;ANPb;NPR2;ECDM;GC-B;GCB;GUC2B;GUCY2B;NPRB;NPRBi;SNSK
Description	Recombinant Human ANPRB Protein with C-terminal 6×His tag
Delivery	In Stock
Uniprot ID	P20594
Expression Host	HEK293
Tag	C-6×His Tag
Molecular Characterization	ANPRB(Arg23-Ile458) 6×His tag
Molecular Weight	The protein has a predicted molecular mass of 49.3 kDa after removal of the signal peptide.
Purity	The purity of the protein is greater than 85% as determined by SDS-PAGE and Coomassie blue staining.
Formulation & Reconstitution	Lyophilized from sterile PBS, pH 7.4. Normally 5 % – 8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis for specific instructions of reconstitution.
Sterility	Products are supplied non-sterile. For cell culture applications, dilute in appropriate medium and sterile-filter (0.22 μm) prior to use.
Storage&Shipping	Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.
Background	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. [provided by RefSeq, Jul 2008]
Usage	Research use only
Conjugate	Unconjugated

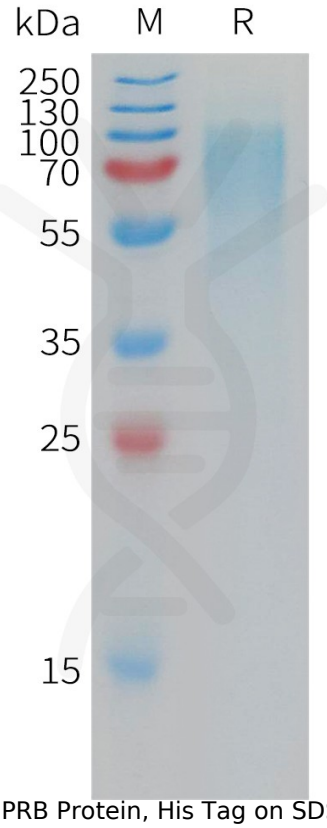

Figure 1. Human ANPRB Protein, His Tag on SDS-PAGE under reducing condition.

Cited in Literature

Hirai K, Sawamura K, Esaki R, Sawada R, Okusha Y, Aoyama E, Saito H, Uchida K, Mima T, Kubota S, Tsukahara H, Imagama S, Matsushita M, Matsushita O, Hosono Y. Collagen-binding C-type natriuretic peptide enhances chondrogenesis and osteogenesis. JCI Insight. 2025 Dec 23;11(3):e198959. **(PubMed)**