abcam

Product datasheet

Anti-Natriuretic Peptide Receptor B antibody ab14357

7 References

Overview

Product name	Anti-Natriuretic Peptide Receptor B antibody
Description	Rabbit polyclonal to Natriuretic Peptide Receptor B
Host species	Rabbit
Tested applications	**Suitable for:** ICC/IF, ICC, WB, IHC-Fr
Species reactivity	**Reacts with:** Mouse, Rat, Human
Immunogen	Synthetic peptide: QNRLLIRAREDFGVE , corresponding to amino acids 288-302 of Human Natriuretic Peptide Receptor B. Run BLAST with Run BLAST with

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid repeated freeze / thaw cycles.
Purity	Whole antiserum
Clonality	Polyclonal
Isotype	IgG

Applications

Our Abpromise guarantee covers the use of **ab14357** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ICC/IF		1/200 - 1/400. PubMed: 19399180
ICC		1/400.
WB		1/10000. Detects a band of approximately 117 kDa.

Application	Abreviews	Notes
IHC-Fr		Use at an assay dependent concentration. PubMed: 24782615

Target

Function	Receptor for the C-type natriuretic peptide NPPC/CNP hormone. Has guanylate cyclase activity upon binding of its ligand. May play a role in the regulation of skeletal growth.
Involvement in disease	Defects in NPR2 are the cause of acromesomelic dysplasia Maroteaux type (AMDM) [MIM:602875]. Acromesomelic chondrodysplasias are rare hereditary skeletal disorders characterized by short stature, very short limbs, and hand/foot malformations. The severity of limb abnormalities increases from proximal to distal with profoundly affected hands and feet showing brachydactyly and/or rudimentary fingers (knob-like fingers). AMDM is an autosomal recessive form characterized by axial skeletal involvement with wedging of vertebral bodies. In AMDM all skeletal elements are present but show abnormal rates of linear growth.
Sequence similarities	Belongs to the adenylyl cyclase class-4/guanylyl cyclase family. Contains 1 guanylate cyclase domain. Contains 1 protein kinase domain.
Post-translational modifications	Phosphorylation of the protein kinase-like domain is required for full activation by CNP.
Cellular localization	Membrane.