



RayBiotech, Inc.

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Certificate of Analysis and Data Sheet

Chicken anti-Growth/differentiation factor 5 (GDF5) antibody

Catalog No:
130-00006

Isotype:
Chicken Ig Y

Species:
Human

Accession No:
NP_000548

Description

Growth/differentiation factor 5 (GDF5) is a protein that in humans is encoded by the *GDF5* gene. The protein encoded by this gene is closely related to the bone morphogenetic protein (BMP) family and is a member of the TGF-beta superfamily. This group of proteins is characterized by a polybasic proteolytic processing site which is cleaved to produce a mature protein containing seven conserved cysteine residues. The members of this family are regulators of cell growth and differentiation in both embryonic and adult tissues. Mutations in this gene are associated with acromesomelic dysplasia, Hunter-Thompson type; brachydactyly, type C; and chondrodysplasia, Grebe type. These associations confirm that the gene product plays a role in skeletal development

Applications

Table Summary of antibody applications and working conditions

| Options Functions | YES | NO | Not determined | Recommended Work dilution or concentration |
|-------------------------------|-----|----|----------------|--|
| ELISA | * | | | 1:1000-5000 |
| Western Blotting | * | | | 1:1000-2000 |
| Enzyme Immunoassay(EIA) | | | # | |
| Immunohistology - paraffin | | | # | |
| Immunohistology - resin | | | # | |
| Immunoprecipitation | | | # | |
| Flow Cytometry | | | # | |
| Neutralization | | | # | |

Note: Other applications are not tested yet. Optimal dilutions should be determined by each laboratory for each application

The products are furnished for LABORATORY RESEARCH USE ONLY.

Not for diagnostic or therapeutic use.



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Preparation

Immunogen was synthetic peptide derived from Human GDF5. This antibody was produced from a chicken immunized with the immunogen. The IgY fraction was purified from collected egg followed by in-house affinity chromatography.

Specificity

The chicken anti-Human GDF5 antibody specifically detected target derived from human recombinant protein as well as selected cell lysates. Cross reactivity with mouse and rat GDF5 was not tested yet.

Reconstitution

Supplied as lyophilized and purified antibody originally containing PBS, without **Preservative Stabilizers**, liking Sodium Azide. *It final concentration is indicated in shipping vial.*

The antibody is stable for at least years from the data of receipt when stored at -20°C to -70°C . Reconstituted antibody (suggesting with sterile PBS) can also be aliquotted and stored frozen at -20°C to -70°C in a manual defrost freezer for months without detectable loss activity. Upon reconstitution, the antibody can be stored at 4°C for 1 month. **Please avoid freeze-thaw cycles.**

Storage

Store at -20°C , if not intended for use within a month, keep it at 4°C and minimize freezing and thawing when use.

Reference

Hötten G, Neidhardt H, Jacobowsky B, Pohl J (1994). "Cloning and expression of recombinant human growth/differentiation factor 5.". *Biochem. Biophys. Res. Commun.* **204** (2): 646–52

Nishitoh H, Ichijo H, Kimura M, *et al.* (1996). "Identification of type I and type II serine/threonine kinase receptors for growth/differentiation factor-5.". *J. Biol. Chem.* **271** (35): 21345–52.

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