

Datasheet for 600-401-BK2**GDF6 Antibody****Overview**

Description:	Anti-GDF6 (RABBIT) Antibody - 600-401-BK2
Item No.:	600-401-BK2
Size:	100 µg
Applications:	ELISA, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Rabbit

Product Details

Background:	Growth differentiation factors (GDFs) are members of the transforming growth factor (TGF) superfamily that is involved in embryonic development and adult tissue homeostasis. Both GDF6 and GDF7 are closely related to GDF5 which has been shown to induce activation of plasminogen activator, thereby inducing angiogenesis. It is predominantly expressed in long bones during fetal embryonic development and is involved in bone formation. In <i>Xenopus</i> , GDF6 is expressed at the edge of the neural plate and within the anterior neural plate including the eye fields. GDF6 is required for normal formation of some bones and joints in the limbs, skull, and axial skeleton. It may regulate patterning of the ectoderm by interacting with bone morphogenetic proteins (BMPs), and control eye development. Mutations in this gene result in colobomata, which are congenital abnormalities in ocular development, and in Klippel-Feil syndrome (KFS), a congenital disorder of spinal segmentation.
Synonyms:	GDF6 Antibody, KFM, KFS, KFS1, KFSL, SGM1, BMP13, CDMP2, LCA17, MCOP4, SCDO4, MCOPCB6, GDF16GDF-6
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	GDF6
Reactivity:	Human, Mouse, Rat

Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-GDF6 antibody was prepared from whole rabbit serum produced by repeated immunizations with a 17 amino acid synthetic peptide near the C-terminus of the human GDF6.
Purity/Specificity:	Anti-GDF6 Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Cross reactivity with GDF6 from other sources has not been determined.
Relevant Links:	• UniProtKB - Q6KF10 • GeneID - 392255 • NCBI - NP_001001557

Application Details

Tested Applications:	ELISA, WB
Application Note:	Anti-GDF6 Antibody has been tested for use in ELISA and Western Blotting. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 51 kDa in Western Blots of specific cell lysates and tissues.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:5000 - 1:10000
WB:	0.5-1 µg/mL

Formulation

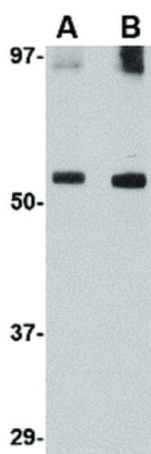
Physical State:	Liquid (sterile filtered)
Concentration:	1 mg/mL by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

Expiration: Expiration date is one (1) year from date of receipt.

Images



Western Blot

Western Blot of GDF6 antibody. Lane A: SK-N-SH lysate at 0.5 µg/mL. Lane B: SK-N-SH lysate at 1 µg/mL. Load: 35 µg per lane. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 50.6 kDa, ~52 kDa for GDF6.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.