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GZF1 Antibody
Catalog # ASC11467

Specification

GZF1 Antibody - Product Information

Application	**WB, IHC, IF**
Primary Accession	Q9H116
Other Accession	NP_071927, 11968150
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**IgG**
Application Notes	**GZF1 antibody can be used for detection of GZF1 by Western blot at 1 µg/mL. Antibody can also be used for immunohistochemistry starting at 2.5 µg/mL. For immunofluorescence start at 2.5 µg/mL.**

GZF1 Antibody - Additional Information

Gene ID **64412**

Target/Specificity
GZF1; GZF1 antibody is human specific. At least four isoforms of GZF1 are known to exist.

Reconstitution & Storage
GZF1 antibody can be stored at 4℃ for three months and -20℃, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.

Precautions
GZF1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

GZF1 Antibody - Protein Information

Name GZF1 (HGNC:15808)

Synonyms ZBTB23, ZNF336

Function
Transcriptional repressor that binds the GZF1 responsive element (GRE) (consensus: 5'-TGCGCN[TG][CA]TATA-3'). May be regulating VSX2/HOX10 expression.

Cellular Location
Cytoplasm. Nucleus, nucleoplasm Nucleus, nucleolus. Note=Nuclear localization depends upon NCL.

Tissue Location

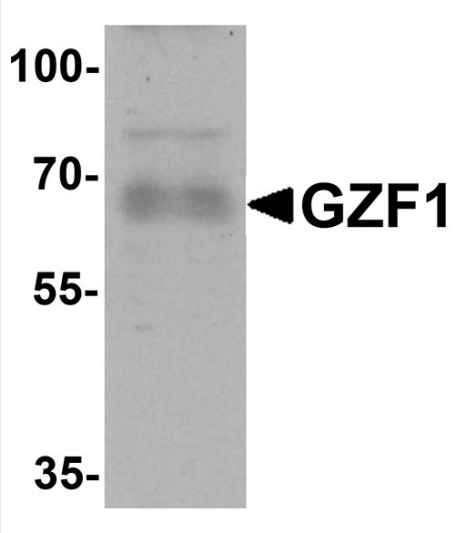
Expressed in adult brain, heart, skeletal muscle, kidney and liver. Also detected in fetal brain and kidney, and at lower levels in fetal lung and liver.

GZF1 Antibody - Protocols

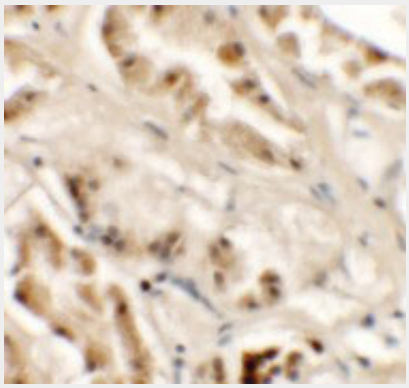
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

GZF1 Antibody - Images



Western blot analysis of GZF1 in human heart tissue lysate with GZF1 antibody at 1 µg/mL.



Immunohistochemistry of GZF1 in human kidney tissue with GZF1 antibody at 2.5 µg/mL.

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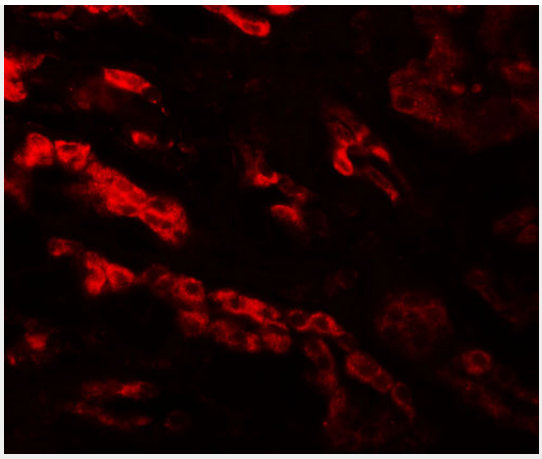

Immunofluorescence of GZF1 in human kidney tissue with GZF1 antibody at 20 µg/mL.

GZF1 Antibody - Background

GZF1 Antibody: The GDNF-inducible zinc finger protein 1 (GZF1) is a sequence-specific transcriptional repressor with a BTB/POZ domain and ten zinc finger motifs whose expression is required for renal branching morphogenesis during kidney development. GZF1 binds to the 5'regulatory region of the homeodomain protein HOXA10, suggesting that GZF1 may play a role in morphogenesis other than kidney development. Recent experiments have indicated that GZF1 associates with nucleolin and this association is mediated by the first four zinc finger motifs of GZF1. It is thought that Nucleolin modulates the subcellular localization of GZF1 as well as its transcriptional repressor activity.

GZF1 Antibody - References

Fukuda N, Ichihara M, Morinaga T, et al. Identification of a novel glial cell line-derived neurotrophic factor-inducible gene required for renal branching morphogenesis. J. Biol. Chem. 2003; 278:50386-92
Morinaga T, Enomoto A, Shimono Y, et al. GDNF-inducible zinc finger protein 1 is a sequence-specific transcriptional repressor that binds to the HOXA10 gene regulatory region. Nuc. Acids Res. 2005; 33:4191-201.
Dambara A, Morinaga T, Fukuda N, et al. Nucleolin modulates the subcellular localization of GDNF-inducible zinc finger protein 1 and its roles in transcription and cell proliferation. Exp. Cell Res. 2007; 313:3755-66.