Ift80 polyclonal antibody

Catalog # PAB15842 Size 50 ug

Specification

Product Description	Rabbit polyclonal antibody raised against partial recombinant Ift80.
Immunogen	Recombinant GST fusion protein corresponding to 134 amino acids of mouse Ift80.
Sequence	KNFQVTLTKRRTMQVRNVLNDAVDLLEFRDRVIKASLNHAHLVVSTSLQCYVFSTKNWNTPLIFDL KEGTVSLILQAERHFLLVDGGGIYLHSYEGRFISSPKFPGMRTDILNAQTVSLSNDTIAIKDKADEKK
Host	Rabbit
Reactivity	Mouse
Specificity	Specific to recombinant protein GX0752. This antibody detects mIFT80 protein.
Form	Liquid
Purification	Affinity purification
Isotype	IgG
Recommend Usage	Western Blot (1:1000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (50% glycerol, 0.02% sodium azide)
Storage Instruction	Store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Western Blot

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Gene Info — Ift80

Entrez GeneID	68259
Protein Accession#	AK129339
Gene Name	Ift80
Gene Alias	4921524P20Rik, Wdr56, mKIAA1374
Gene Description	intraflagellar transport 80 homolog (Chlamydomonas)
Gene Ontology	Hyperlink
Other Designations	OTTMUSP00000029301|WD repeat domain 56

Publication Reference

- IFT80 and TRPA1 cooperatively regulate bone formation by calcium signaling in response to mechanical stimuli.

  Ting Wang., Yue Chen., Xinyi Zhu., Lihe Zheng., Yingyi Li., Xiaolei Ruan., Ziwei Yan., Zhaolan Guan., Wen Sun., Hua Wang.

  Metabolism 2025 Feb; 166:156159.

  Application: Western blot, Mouse, Cortical bone tissue

- IFT80 promotes early bone healing of tooth sockets through the activation of TAZ/RUNX2 pathway.

  Ziwei Zhao, Ying Geng, Qiaoqi Ni, Yue Chen, Yanan Cao, Yahui Lu, Hua Wang, Ruixia Wang, Wen Sun.

  Oral Diseases 2024 Jan; [Epub].

  Application: ICC, IF, WB, Mouse, C3H10T1/2 cell lines, mouse tooth

- Diabetes impairs fracture healing through Foxo1 mediated disruption of ciliogenesis.

  Zahra Chinipardaz, Gongsheng Yuan, Min Liu, Dana T Graves, Shuying Yang.

  Cell Death Discovery 2023 Aug; 9(1):299.

  Application: WB, Mouse, Bone

- Diabetes Impairs Fracture Healing Through Disruption Of Cilia Formation In Osteoblasts.

  Zahra Chinipardaz, Min Liu, Dana Graves, Shuying Yang.

  Bone 2021 Dec; 153:116176.

  Application: WB-Ti, Mouse, Mouse femur fracture calluses

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- IFT80 Is Required for Fracture Healing Through Controlling the Regulation of TGF-β Signaling in Chondrocyte Differentiation and Function.

  Liu M, Alharbi M, Graves D, Yang S.

  Journal of Bone and Mineral Research 2020 Mar; 35(3):571.

  Application: WB-Ti, Mouse, Mouse femur

- Ciliary IFT80 regulates dental pulp stem cells differentiation by FGF/FGFR1 and Hh/BMP2 signaling.

  Yuan X, Liu M, Cao X, Yang S.

  International Journal of Biological Sciences 2019 Aug; 15(10):2087.

  Application: WB-Ce, Mouse, Dental pulp stem cells

- IFT80 is required for stem cell proliferation, differentiation, and odontoblast polarization during tooth development.

  Yuan X, Cao X, Yang S.

  Cell Death & Disease 2019 Jan; 10(2):63.

  Application: WB, Mouse, Mouse dental pulp stem cells

- IFT80 Improves Invasion Ability in Gastric Cancer Cell Line via ift80/p75NGFR/MMP9 Signaling.

  Wang R, Deng X, Yuan C, Xin H, Liu G, Zhu Y, Jiang X, Wang C.

  International Journal of Molecular Sciences 2018 Nov; 19(11):E3616.

  Application: IF, Human, SGC-7901 cells

- Crystal structure of intraflagellar transport protein 80 reveals a homo-dimer required for ciliogenesis.

  Michael Taschner, Anna Lorentzen, Andre Mourao, Toby Collins, Grace M Freke, Dale Moulding, Jerome Basquin, Dagan Jenkins, Esben Lorentzen

  Elife 2018 4; 70:0.

- Ciliary IFT80 balances canonical versus non-canonical hedgehog signalling for osteoblast differentiation.

  Xue Yuan, Jay Cao, Xiaoning He, Rosa Serra, Jun Qu, Xu Cao, Shuying Yang

  Nat Commun 2016 Mar; 7:11024.

  Application: WB

- IFT80 is essential for chondrocyte differentiation by regulating hedgehog and Wnt signaling pathways.

  Wang C, Yuan X, Yang S.

  Experimental Cell Research 2013 Jan; 319(5):623.

  Application: WB, IF, Mouse, Mouse tibia, bonemarrowderivedstromalcells (BMSCs)

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- The intraflagellar transport protein IFT80 is required for cilia formation and osteogenesis.

  Yang S, Wang C.

  Bone 2012 Sep; 51(3):407.

  Application: IF, IHC, WB, Mouse, C3H10T1/2 cells, Mouse bone, eye, kidney

- Prediction of the coding sequences of mouse homologues of KIAA gene: II. The complete nucleotide sequences of 400 mouse KIAA-homologous cDNAs identified by screening of terminal sequences of cDNA clones randomly sampled from size-fractionated libraries.

  Okazaki N, Kikuno R, Ohara R, Inamoto S, Aizawa H, Yuasa S, Nakajima D, Nagase T, Ohara O, Koga H.

  DNA Res 2003 Feb; 10(1):35.

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