

Product Datasheet

PITX2 Antibody (2G6) - Azide and BSA Free H00005308-M01

Unit Size: 0.1 mg

Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.

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H00005308-M01

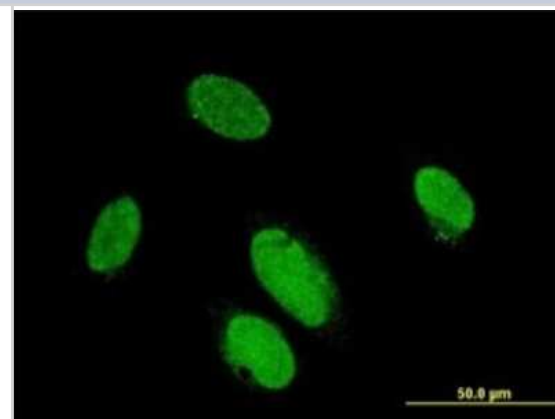
PITX2 Antibody (2G6) - Azide and BSA Free

Product Information	
Unit Size	0.1 mg
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	2G6
Preservative	No Preservative
Isotype	IgG2a Kappa
Purity	IgG purified
Buffer	In 1x PBS, pH 7.4
Product Description	
Description	Quality control test: Antibody Reactive Against Recombinant Protein.
Host	Mouse
Gene ID	5308
Gene Symbol	PITX2
Species	Human
Specificity/Sensitivity	PITX2 - paired-like homeodomain transcription factor 2
Immunogen	PITX2 (AAH13998, 1 a.a. ~ 324 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa. MNCMKGPLHLEHRAAGTKLSAVSSSSCHHPQPLAMASVLAPGQPRSLDSSKH RLEVHTISDTSSPEAAEKDKSQQGNEDVGAEDPSKKKRQRRQRTHFTSQQL QLEATFQRNRYPD MSTREEIAVWTNLTEARVRVWFKNRRAKWRKRERNQQ AELCKNGFGPQFNGLMQPYDDMYPGYSYNNWAAKGLTSASLSTKSFPFFNS MNVNPLSSQSMFSPNSISSMSMSSSMVPSAVTGVPGSSLNSLNNLNNLSSP SLNSAVPTPACPYAPPTPPYVYRDTCNSSLASLRLKAKQHSSFGYASVQNPAS NLSACQYAVDRPV
Notes	This product is produced by and distributed for Abnova, a company based in Taiwan.
Product Application Details	
Applications	Western Blot, ELISA, Immunocytochemistry/ Immunofluorescence, Chromatin Immunoprecipitation (ChIP)
Recommended Dilutions	Western Blot 1:500, ELISA, Immunocytochemistry/ Immunofluorescence, Chromatin Immunoprecipitation (ChIP)
Application Notes	Antibody reactivity against Recombinant Protein with GST tag on ELISA and WB. GST tag alone is used as a negative control.

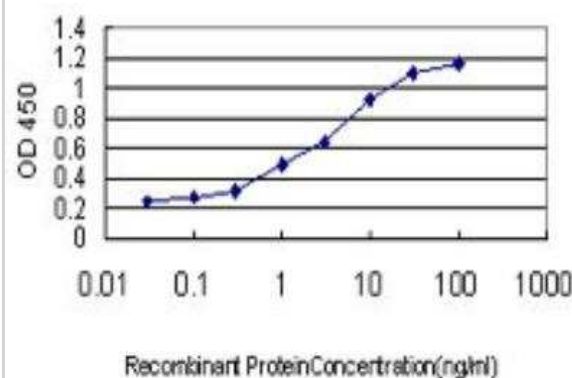


Images

Immunocytochemistry/Immunofluorescence: PITX2 Antibody (2G6) [H00005308-M01] - Analysis of monoclonal antibody to PITX2 on HeLa cell . Antibody concentration 10 ug/ml.



ELISA: PITX2 Antibody (2G6) [H00005308-M01] - Detection limit for recombinant GST tagged PITX2 is approximately 0.03ng/ml as a capture antibody.



Publications

Stallings CE, Ellsworth BS., , et Al. Premature Expression of FOXO1 in Developing Mouse Pituitary Results in Anterior Lobe Hypoplasia *Endocrinology* 2018-05-26 [PMID: 29796621]

Chen, ZS;Ou, M;Taylor, S;Dafinca, R;Peng, SI;Talbot, K;Chan, HYE; Mutant GGGGCC RNA prevents YY1 from binding to Fuzzy promoter which stimulates Wnt/ β -catenin pathway in C9ALS/FTD *Nature communications* 2023-12-18 [PMID: 38110419]

Christian O, Jessika M, Rebecca G et al. Mechanotransductive Differentiation of Hair Follicle Stem Cells Derived from Aged Eyelid Skin into Corneal Endothelial-Like Cells. *Stem Cell Rev Rep*. 2021-09-13 [PMID: 34515937]

Mary W, Nicole G, Jessica B et al. TWIST1, a gene associated with Saethre-Chotzen syndrome, regulates extraocular muscle organization in mouse. *Dev Biol*. 2022-08-06 [PMID: 35944701]

Lovatt M, Yam GH, Peh GS et al. Directed differentiation of periocular mesenchyme from human embryonic stem cells. *Differentiation* 2017-11-16 [PMID: 29239730]

Strungaru MH, Footz T, Liu Y et al. PITX2 is involved in stress response in cultured human trabecular meshwork cells through regulation of SLC13A3. *Invest Ophthalmol Vis Sci*. 2011-08-27 [PMID: 21873665]

Acharya M, Lingenfelter DJ, Huang L et al. Human PRKC apoptosis WT1 regulator is a novel PITX2-interacting protein that regulates PITX2 transcriptional activity in ocular cells. *J Biol Chem* 284(50):34829-38. 2009-12-11 [PMID: 19801652]

Amen, M, H M Espinoza et al. Chromatin-associated HMG-17 is a major regulator of homeodomain transcription factor activity modulated by Wnt/ β -catenin signaling. *Nucleic Acids Research* 36: 462-476. 2008-01-01 [PMID: 18045789] (WB)



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Products Related to H00005308-M01

HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-96981-0.5mg	Mouse IgG2a Kappa Isotype Control (M2AK)
NBP2-55572PEP	PITX2 Recombinant Protein Antigen

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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