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TCF2 Antibody (monoclonal) (M09)

Mouse monoclonal antibody raised against a partial recombinant TCF2.
Catalog # AT4185a

Product Information

Application	WB
Primary Accession	P35680
Other Accession	NM_000458
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG2a Kappa
Clone Names	3E5
Calculated MW	61324

Additional Information

Gene ID	6928
Other Names	Hepatocyte nuclear factor 1-beta, HNF-1-beta, HNF-1B, Homeoprotein LFB3, Transcription factor 2, TCF-2, Variant hepatic nuclear factor 1, vHNF1, HNF1B, TCF2
Target/Specificity	TCF2 (NP_000449, 29 a.a. ~ 118 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	TCF2 Antibody (monoclonal) (M09) is for research use only and not for use in diagnostic or therapeutic procedures.

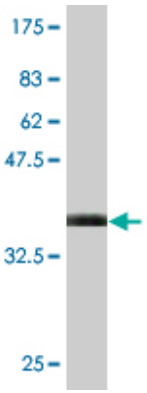
Background

This gene encodes a member of the homeodomain-containing superfamily of transcription factors. The protein binds to DNA as either a homodimer, or a heterodimer with the related protein hepatocyte nuclear factor 1-alpha. The gene has been shown to function in nephron development, and regulates development of the embryonic pancreas. Mutations in this gene result in renal cysts and diabetes syndrome and noninsulin-dependent diabetes mellitus, and expression of this gene is altered in some types of cancer. Multiple transcript variants encoding different isoforms have been found for this gene.

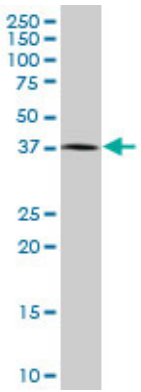
References

Meta-analysis of genome-wide and replication association studies on prostate cancer. Liu H, et al. Prostate, 2010 Aug 5. PMID 20690139.COMMON VARIANTS IN 40 GENES ASSESSED FOR DIABETES INCIDENCE AND RESPONSE TO METFORMIN AND LIFESTYLE INTERVENTIONS IN THE DIABETES PREVENTION PROGRAM. Jablonski KA, et al. Diabetes, 2010 Aug 3. PMID 20682687.Mutations in the hepatocyte nuclear factor-1beta (HNF1B) gene are common with combined uterine and renal malformations but are not found with isolated uterine malformations. Oram RA, et al. Am J Obstet Gynecol, 2010 Jul 14. PMID 20633866.Variation at the NFATC2 Locus Increases the Risk of Thiazolinedinedione-Induced Edema in the Diabetes REduction Assessment with ramipril and rosiglitazone Medication (DREAM) Study. Bailey SD, et al. Diabetes Care, 2010 Jul 13. PMID 20628086.Number of prostate cancer risk alleles may identify possibly 'insignificant' disease. Helfand BT, et al. BJU Int, 2010 Jun 30. PMID 20590552.

Images



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (35.90 KDa) .



TCF2 monoclonal antibody (M09), clone 3E4. Western Blot analysis of TCF2 expression in MES-SA/Dx5 ((Cat # AT4185a)