

TCF7L2 Antibody (monoclonal) (M03)**Mouse monoclonal antibody raised against a partial recombinant TCF7L2.****Catalog # AT4190a****Specification**

TCF7L2 Antibody (monoclonal) (M03) - Product Information

Application	WB, IF, E
Primary Accession	O9NOB0
Other Accession	NM_030756
Reactivity	Human
Host	mouse
Clonality	Monoclonal
Isotype	IgG1 Kappa
Calculated MW	67919

TCF7L2 Antibody (monoclonal) (M03) - Additional Information**Gene ID** 6934**Other Names**

Transcription factor 7-like 2, HMG box transcription factor 4, T-cell-specific transcription factor 4, T-cell factor 4, TCF-4, hTCF-4, TCF7L2, TCF4

Target/Specificity

TCF7L2 (NP_110383, 490 a.a. ~ 596 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

Dilution

WB~~1:500~1000

IF~~1:50~200

E~~N/A

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

TCF7L2 Antibody (monoclonal) (M03) is for research use only and not for use in diagnostic or therapeutic procedures.

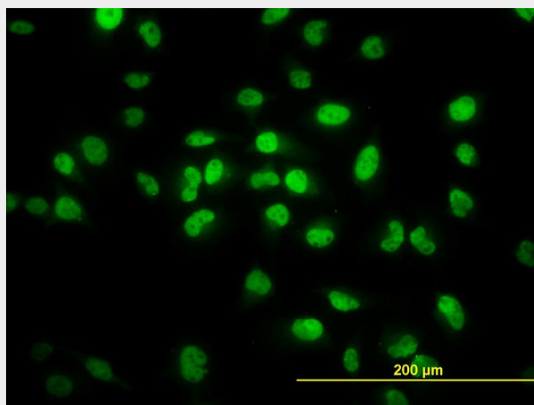
TCF7L2 Antibody (monoclonal) (M03) - Protocols

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

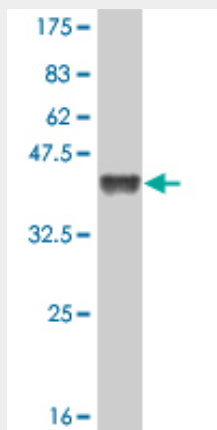
- [Western Blot](#)

- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

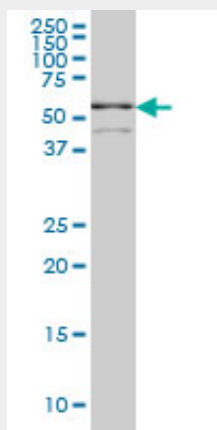
TCF7L2 Antibody (monoclonal) (M03) - Images



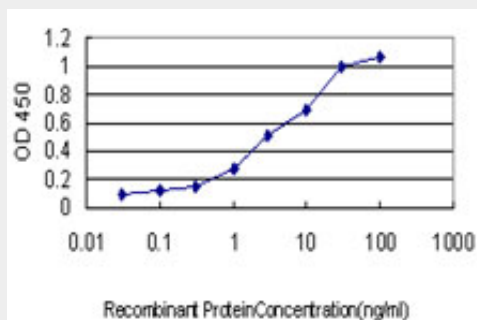
Immunofluorescence of monoclonal antibody to TCF7L2 on HeLa cell. [antibody concentration 40 ug/ml]



Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (37.51 KDa) .



TCF7L2 monoclonal antibody (M03), clone 3D7 Western Blot analysis of TCF7L2 expression in K-562 ((Cat # AT4190a)



Detection limit for recombinant GST tagged TCF7L2 is approximately 0.1ng/ml as a capture antibody.

TCF7L2 Antibody (monoclonal) (M03) - Background

This gene encodes a high mobility group (HMG) box-containing transcription factor that plays a key role in the Wnt signaling pathway. The protein has been implicated in blood glucose homeostasis. Genetic variants of this gene are associated with increased risk of type 2 diabetes.

TCF7L2 Antibody (monoclonal) (M03) - References

Glycemia determines the effect of type 2 diabetes risk genes on insulin secretion. Heni M, et al. Diabetes, 2010 Aug 29. PMID 20802253. Role of BMI in the Association of the TCF7L2 rs7903146 Variant with Coronary Heart Disease: The Atherosclerosis Risk in Communities (ARIC) Study. Kucharska-Newton AM, et al. J Obes, 2010. PMID 20798759. Hyperglycemia and Adverse Pregnancy Outcome (HAPO) Study: common genetic variants in GCK and TCF7L2 are associated with fasting and post-challenge glucose levels in pregnancy and with the new consensus definition of gestational diabetes from the International Association of Diabetes and Pregnancy Study Groups. Freathy RM, et al. Diabetes, 2010 Aug 3. PMID 20682688. The balance of TCF7L2 variants with differential activities in Wnt-signaling is regulated by lithium in a GSK3beta-independent manner. Struwing I, et al. Biochem Biophys Res Commun, 2010 Aug 20. PMID 20654575. Potential role of TCF7L2 gene variants on cardiac sympathetic/parasympathetic activity. Boccardi V, et al. Eur J Hum Genet, 2010 Jul 21. PMID 20648057.