10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

POU4F3 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant POU4F3.
Catalog # AT3386a

Product Information

Application	WB, IF, E
Primary Accession	Q15319
Other Accession	NM_002700
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG1 Kappa
Clone Names	5B8
Calculated MW	37052

Additional Information

Gene ID	5459
Other Names	POU domain, class 4, transcription factor 3, Brain-specific homeobox/POU domain protein 3C, Brain-3C, Brn-3C, POU4F3, BRN3C
Target/Specificity	POU4F3 (NP_002691, 100 a.a. ~ 190 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	POU4F3 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

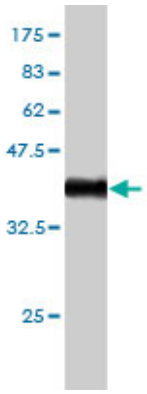
This gene encodes a member of the POU-domain family of transcription factors. POU-domain proteins have been observed to play important roles in control of cell identity in several systems. This protein is found in the retina and may play a role in determining or maintaining the identities of a small subset of visual system neurons. Defects in this gene are the cause of non-syndromic sensorineural deafness autosomal dominant type 15.

References

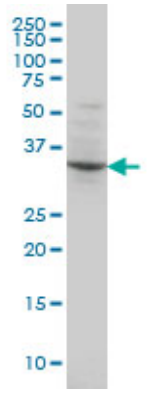
A novel frameshift mutation of POU4F3 gene associated with autosomal dominant non-syndromic hearing

loss. Lee HK, et al. Biochem Biophys Res Commun, 2010 Jun 4. PMID 20434433.Molecular modelling insights into DFNA15 mediated enhancement of POU4F3 stability. Frenz CM, et al. Int J Comput Biol Drug Des, 2008. PMID 20054994.Mild and variable audiometric and vestibular features in a third DFNA15 family with a novel mutation in POU4F3. de Heer AM, et al. Ann Otol Rhinol Laryngol, 2009 Apr. PMID 19462854.Vestibular impairment in a Dutch DFNA15 family with an L289F mutation in POU4F3. van Drunen FJ, et al. Audiol Neurootol, 2009. PMID 19372648.Audiometric characteristics of a Dutch family linked to DFNA15 with a novel mutation (p.L289F) in POU4F3. Pauw RJ, et al. Arch Otolaryngol Head Neck Surg, 2008 Mar. PMID 18347256.

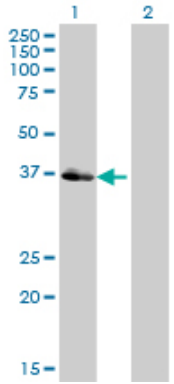
Images



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (35.75 KDa) .

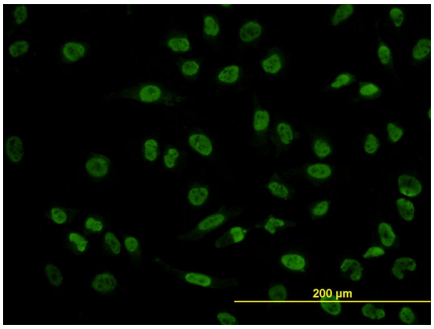


POU4F3 monoclonal antibody (M01), clone 5B8 Western Blot analysis of POU4F3 expression in Hela S3 NE ((Cat # AT3386a)

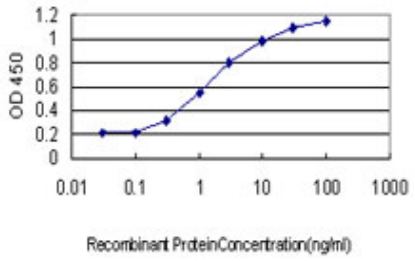


Western Blot analysis of POU4F3 expression in transfected 293T cell line by POU4F3 monoclonal antibody (M01), clone 5B8.

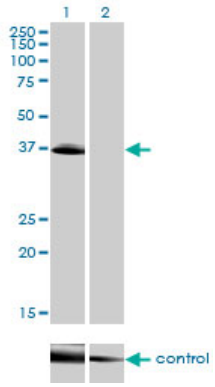
Lane 1: POU4F3 transfected lysate(37.1 KDa).
Lane 2: Non-transfected lysate.



Immunofluorescence of monoclonal antibody to POU4F3 on HeLa cell. [antibody concentration 10 ug/ml]



Detection limit for recombinant GST tagged POU4F3 is approximately 0.1ng/ml as a capture antibody.



Western blot analysis of POU4F3 over-expressed 293 cell line, cotransfected with POU4F3 Validated Chimera RNAi ((Cat # AT3386a)