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POU4F3 Antibody (monoclonal) (M01)

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

Specification

POU4F3 Antibody (monoclonal) (M01) - Product Information

Application	**IF, WB, E**
Primary Accession	Q15319
Other Accession	NM_002700
Reactivity	**Human**
Host	**mouse**
Clonality	**Monoclonal**
Isotype	**IgG1 Kappa**
Calculated MW	**37052**

POU4F3 Antibody (monoclonal) (M01) - 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

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.

POU4F3 Antibody (monoclonal) (M01) - Protocols

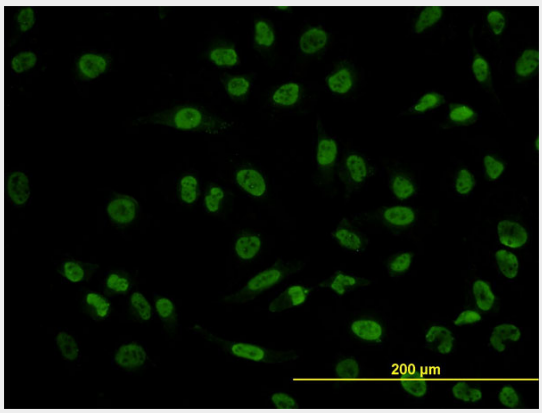
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot

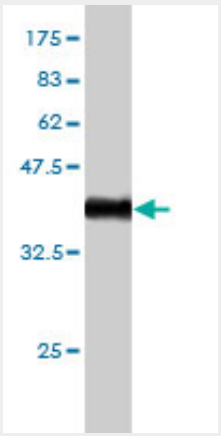
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- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

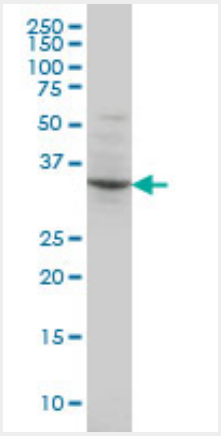
POU4F3 Antibody (monoclonal) (M01) - Images



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



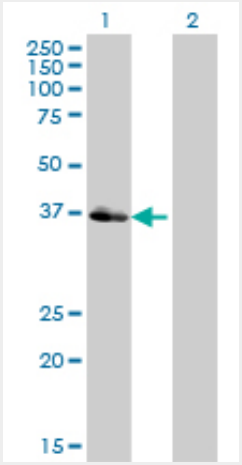
Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (35.75 KDa) .



POU4F3 monoclonal antibody (M01), clone 5B8 Western Blot analysis of POU4F3 expression in

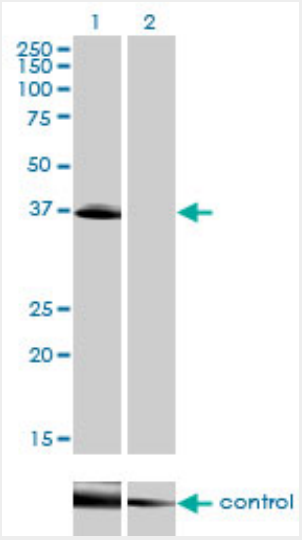
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Hela S3 NE ((Cat # AT3386a)

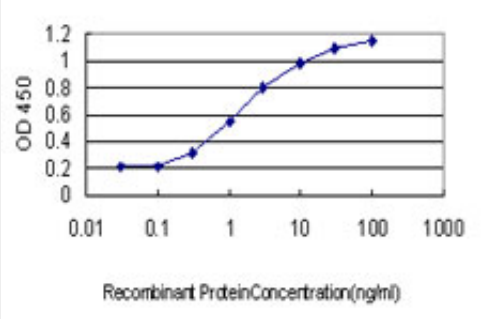


Western Blot analysis of POU4F3 expression in transfected 293T cell line by POU4F3 monoclonal antibody (M01), clone 5B8.

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



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



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

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POU4F3 Antibody (monoclonal) (M01) - 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.

POU4F3 Antibody (monoclonal) (M01) - 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.