

POU4F3 Rabbit pAb

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Catalog # AP57841

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q15319
Reactivity	Rat, Mouse
Predicted	Pig, Dog, Human, Rabbit, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	37052
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human POU4F3
Epitope Specificity	201-300/338
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Nucleus.
DISEASE	Defects in POU4F3 are the cause of deafness autosomal dominant type 15 (DFNA15) [MIM:602459]. DFNA15 is a form of sensorineural hearing loss. Sensorineural deafness results from damage to the neural receptors of the inner ear, the nerve pathways to the brain, or the area of the brain that receives sound information.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	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. [provided by RefSeq, Mar 2009]

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
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

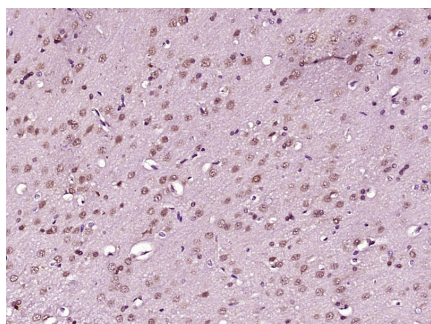
Protein Information

Name	POU4F3
Synonyms	BRN3C
Function	Acts as a transcriptional activator (PubMed: 18228599). Acts by binding to sequences related to the consensus octamer motif 5'- ATGCAAAT-3' in the regulatory regions of its target genes (PubMed: 18228599). Involved in the auditory system development, required for terminal differentiation of hair cells in the inner ear (By similarity).
Cellular Location	Nucleus. Cytoplasm Note=Preferentially localized in the nucleus
Tissue Location	Brain. Seems to be specific to the retina.

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Images



Paraformaldehyde-fixed, paraffin embedded (Rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (POU4F3) Polyclonal Antibody, Unconjugated (AP57841) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.