

# POU4F3 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP57841

## Product Information

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<b>Application</b>	IHC-P, IHC-F, IF, ICC, E
<b>Primary Accession</b>	<a href="#">Q15319</a>
<b>Reactivity</b>	Rat, Pig, Dog, Bovine
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Calculated MW</b>	37052
<b>Physical State</b>	Liquid
<b>Immunogen</b>	KLH conjugated synthetic peptide derived from human POU4F3
<b>Epitope Specificity</b>	201-300/338
<b>Isotype</b>	IgG
<b>Purity</b>	affinity purified by Protein A
<b>Buffer</b>	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
<b>SUBCELLULAR LOCATION</b>	Nucleus.
<b>SIMILARITY</b>	Belongs to the POU transcription factor family. Class-4 subfamily. Contains 1 homeobox DNA-binding domain. Contains 1 POU-specific domain.
<b>DISEASE</b>	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.
<b>Important Note</b>	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
<b>Background Descriptions</b>	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

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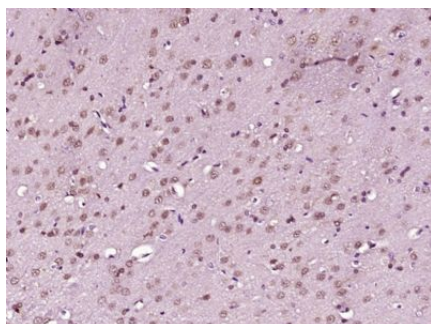
<b>Gene ID</b>	5459
<b>Other Names</b>	POU domain, class 4, transcription factor 3, Brain-specific homeobox/POU domain protein 3C, Brain-3C, Brn-3C, POU4F3, BRN3C
<b>Target/Specificity</b>	Brain. Seems to be specific to the retina.
<b>Dilution</b>	IHC-P=1:100-500,IHC-F=1:100-500,ICC=1:100-500,IF=1:100-500,ELISA=1:5000-10000

<b>Format</b>	0.01M TBS(pH7.4) with 1% BSA, 0.09% (W/V) sodium azide and 50% Glyce
<b>Storage</b>	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.

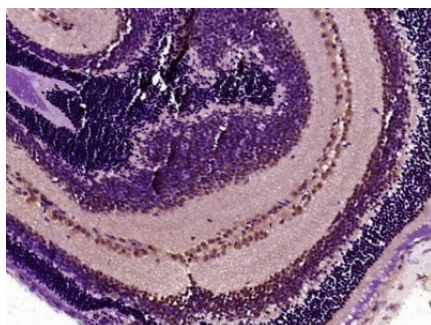
## Protein Information

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

## 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.



Paraformaldehyde-fixed, paraffin embedded (Mouse eye); 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'.