Datasheet for ABIN7164063

anti-POU4F1 antibody (AA 258-419)

2 Images

Go to Product page

Overview

Quantity:	100 µL
Target:	POU4F1
Binding Specificity:	AA 258-419
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This POU4F1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunofluorescence (IF)

Product Details

Immunogen:	Recombinant Human POU domain, class 4, transcription factor 1 protein (258-419AA)
Isotype:	IgG
Cross-Reactivity:	Human
Purification:	>95%, Protein G purified

Target Details

Target:	POU4F1
Alternative Name:	POU4F1 (POU4F1 Products)
Background:	Background: Multifunctional transcription factor with different regions mediating its different effects. Acts by binding (via its C-terminal domain) to sequences related to the consensus

Target Details

	octamer motif 5\'-ATGCAAAT-3\' in the regulatory regions of its target genes. Regulates the expression of specific genes involved in differentiation and survival within a subset of neuronal lineages. It has been shown that activation of some of these genes requires its N-terminal domain, maybe through a neuronal-specific cofactor. Ativates BCL2 expression and protects neuronal cells from apoptosis (via the N-terminal domain). Induces neuronal process outgrowth and the coordinate expression of genes encoding synaptic proteins. Exerts its major developmental effects in somatosensory neurons and in brainstem nuclei involved in motor control. Stimulates the binding affinity of the nuclear estrogene receptor ESR1 to DNA estrogen response element (ERE), and hence modulates ESR1-induced transcriptional activity. May positively regulate POU4F2 and POU4F3. Regulates dorsal root ganglion sensory neuron specification and axonal projection into the spinal cord. Plays a role in TNFSF11-mediated terminal osteoclast differentiation. Negatively regulates its own expression interacting directly with a highly conserved autoregulatory domain surrounding the transcription initiation site. Aliases: Brain specific homeobox/POU domain protein 3A antibody, Brain-3A antibody, Brain-specific homeobox/POU domain protein 3A antibody, Brn 3.0 antibody, BRN 3A antibody, Brn-3A antibody, Brn3 antibody, BRN3A antibody, class 4 antibody, FLJ13449 antibody, Homeobox/POU domain protein RDC 1 antibody, Homeobox/POU domain protein RDC-1 antibody, Homeobox/POU domain protein RDC1 antibody, Oct T1 antibody, Oct-T1 antibody, OctT1 antibody, PO4F1_HUMAN antibody, POU class 4 homeobox 1 antibody, POU domain antibody, POU Domain Class 4 Transcription Factor 1 antibody, Pou4f1 antibody, RDC 1 antibody, RDC1 antibody, transcription factor 1 antibody
UniProt:	Q01851
Pathways:	Feeding Behaviour

Application Details

Application Notes:	Recommended dilution: WB:1:1000-1:5000, IF:1:50-1:200,
Restrictions:	For Research Use only

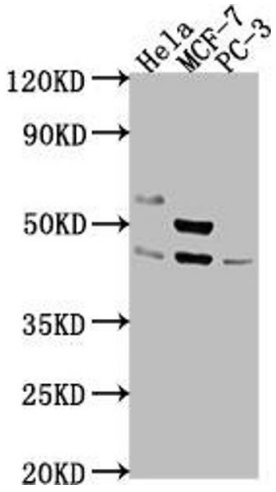
Handling

Format:	Liquid
Buffer:	Preservative: 0.03 % Proclin 300 Constituents: 50 % Glycerol, 0.01M PBS, pH 7.4
Preservative:	ProClin

Handling

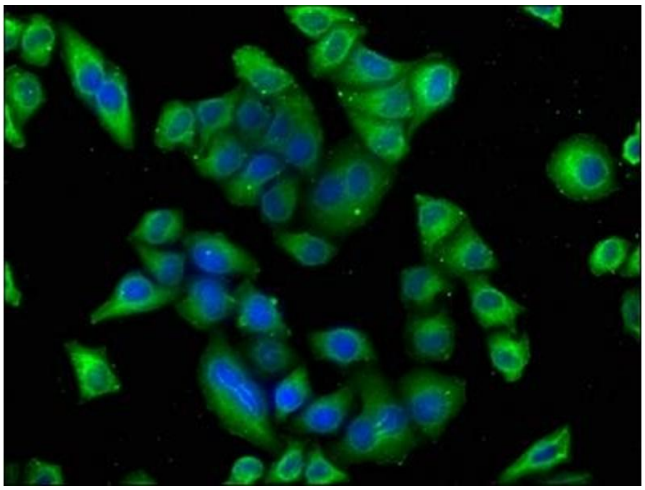
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C,-80 °C
Storage Comment:	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.

Images



Western Blotting

Image 1. Western Blot Positive WB detected in: Hela whole cell lysate, MCF-7 whole cell lysate, PC-3 whole cell lysate All lanes: POU4F1 antibody at 1:2000 Secondary Goat polyclonal to rabbit IgG at 1/50000 dilution Predicted band size: 43, 34 kDa Observed band size: 43 kDa



Immunofluorescence

Image 2. Immunofluorescence staining of Hela cells with ABIN7164063 at 1:100, counter-stained with DAPI. The cells were fixed in 4 % formaldehyde, permeabilized using 0.2 % Triton X-100 and blocked in 10 % normal Goat Serum. The cells were then incubated with the antibody overnight at 4 °C. The secondary antibody was Alexa Fluor 488-congugated AffiniPure Goat Anti-Rabbit IgG(H+L).