

Rabbit OCT3 Polyclonal Antibody | anti-OCT3 antibody

OCT3 Antibody

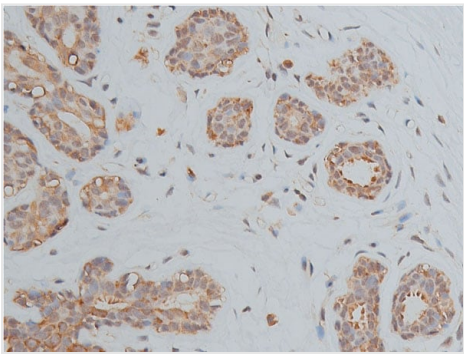
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA322009	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

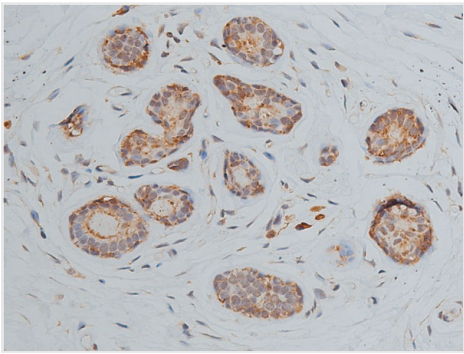
OCT3; Polyclonal Antibody; OCT3 Antibody; Octamer binding transcription factor 4; MGC22487; Oct 3; Oct 4; Oct-3; Oct-4; Oct4; Octamer binding protein 3; Octamer binding protein 4; Octamer binding transcription factor 3; Octamer-binding protein 3; Octamer-binding protein 4; Octamer-binding transcription factor 3; OTF 3; OTF 4; OTF-3; OTF3; OTF4; PO5F1_HUMAN; POU class 5 homeobox 1; POU domain class 5 transcription factor 1; POU domain transcription factor OCT4; POU domain; class 5; transcription factor 1; POU-type homeodomain-containing DNA-binding protein; POU5F1; anti-OCT3 antibody

PRODUCT SPECIFICATIONS

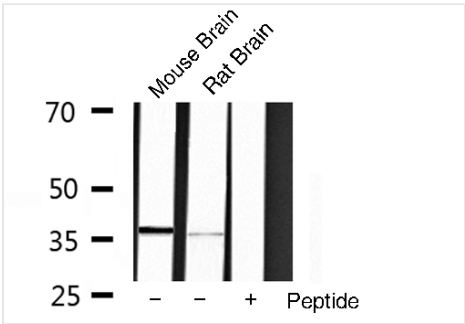
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	OCT3 antibody detects endogenous levels of total 41915
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	265
Applicable Applications for anti-OCT3 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human 41915
Subcellular Location	Nucleus. Expressed in a diffuse and slightly punctuate pattern.
Tissue Specificity	Expressed in developing brain. Highest levels found in specific cell layers of the cortex, the olfactory bulb, the hippocampus and the cerebellum. Low levels of expression in adult tissues.
Predicted Cross Reactivity	Pig, Bovine, Rabbit, Dog
Similarity	Pig (100%), Bovine (100%), Rabbit (100%), Dog (100%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



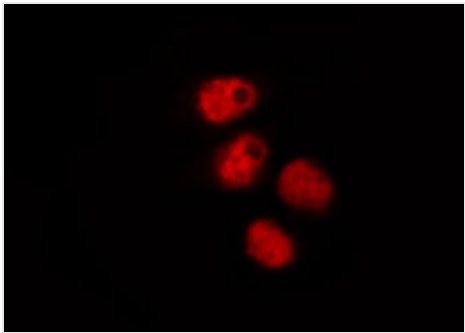
IHC (Immunohistochemistry)
AAA322009 at 1/50 staining human breast cancer tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



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WB (Western Blot)
Western blot analysis of extracts of various cell lines, using OCT3 antibody.



IF (Immunofluorescence)
AAA322009 staining HeLa by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-OCT3 antibody	Description: Transcription factor that binds to the octamer motif (5'-ATTTGCAT-3'). Forms a trimeric complex with SOX2 on DNA and controls the expression of a number of genes involved in embryonic development such as YES1, FGF4, UTF1 and ZFP206. Critical for early embryogenesis and for embryonic stem cell pluripotency. Subunit Structure: Interacts with UBE2I and ZSCAN10 (By similarity). Interacts with PKM. Interacts with WWP2. Interacts with PCGF1 (PubMed:26687479). Interacts with ESRRB; recruits ESRRB near the POU5F1-SOX2 element in the NANOG proximal promoter; the interaction is DNA independent (By similarity). Interacts with ZNF322 (By similarity). Post-translational Modifications: Sumoylation enhances the protein stability, DNA binding and transactivation activity. Sumoylation is required for enhanced YES1 expression (By similarity). Ubiquitinated; undergoes 'Lys-63'-linked polyubiquitination by WWP2 leading to proteasomal degradation. ERK1/2-mediated phosphorylation at Ser-111 promotes nuclear exclusion and proteasomal degradation. Phosphorylation at Thr-235 and Ser-236 decrease DNA-binding and alters ability to activate transcription. Similarity: The POU-specific domain mediates interaction with PKM. Belongs to the POU transcription factor family. Class-5 subfamily.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	553727233
NCBI GeneID	5460
NCBI Accession #	NP_001272916.1
NCBI GenBank Nucleotide #	NM_001285987.1

UniProt Accession #	Q01860 ; P31359 ; Q15167 ; Q15168 ; Q16422 ; Q5STF3 ; Q5STF4 ; A6NCS1 ; A6NLL8 ; D2IYK4
Molecular Weight	Observed: 36 kDa Predicted: 39 kDa
NCBI Official Full Name	POU domain, class 5, transcription factor 1 isoform 3
NCBI Official Synonym Full Names	POU class 5 homeobox 1
NCBI Official Symbol	POU5F1
NCBI Official Synonym Symbols	OCT3; OCT4; OTF3; OTF4; OTF-3; Oct-3; Oct-4
NCBI Protein Information	POU domain, class 5, transcription factor 1
UniProt Protein Name	POU domain, class 5, transcription factor 1
UniProt Gene Name	POU5F1
UniProt Synonym Gene Names	OCT3; OCT4; OTF3; Oct-3; Oct-4; OTF-3

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/oct3-antibody-immunocytochemistry-immunofluorescence-immunohistochemistry-western-blot-elisa/322009>