

Oct-3/4 Polyclonal Antibody

Description

Product type	Primary Antibody
Code	BT-AP06333
Host	Rabbit
Isotype	IgG
Size	20ul, 50ul, 100ul
Immunogen	The antiserum was produced against synthesized peptide derived from human OCT3. AA range:191-240
Mol wt	38571
Species reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Recommended application	WB, IHC-p, ELISA
Concentration	1 mg/ml
Full name	Oct-3/4 Antibody
Synonyms	POU5F1; OCT3; OCT4; OTF3; POU domain, class 5, transcription factor 1; Octamer-binding protein 3; Oct-3; Octamer-binding protein 4; Oct-4; Octamer-binding transcription factor 3; OTF-3

This product is for research use only, not for use in human, therapeutic or diagnostic procedure.

Background

POU5F1 encodes a transcription factor containing a POU homeodomain that plays a key role in embryonic development and stem cell pluripotency. Aberrant expression of POU5F1 in adult tissues is associated with tumorigenesis. POU5F1 can participate in a translocation with the Ewing's sarcoma gene on chromosome 21, which also leads to tumor formation. Alternative splicing, as well as usage of alternative AUG and non-AUG translation initiation codons, results in multiple isoforms. One of the AUG start codons is polymorphic in human populations. Related pseudogenes have been identified on chromosomes 1, 3, 8, 10, and 12.

Recommended Dilution

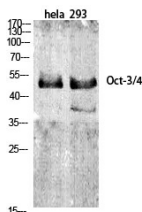
WB: 1: 500 - 1: 2000

IHC: 1: 100 - 1: 300

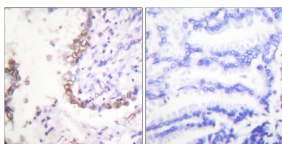
ELISA: 1: 10000

Not yet tested in other applications.

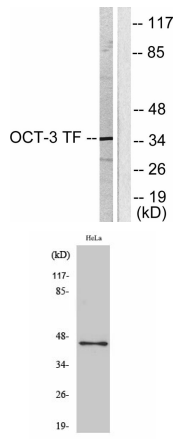
Images



Western Blot analysis of various cells using Oct-3/4 Polyclonal Antibody diluted at 1:1000



Immunohistochemistry analysis of paraffin-embedded human lung carcinoma tissue, using OCT3 Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of lysates from HeLa cells, using OCT3 Antibody. The lane on the right is blocked with the synthesized peptide.

Western Blot analysis of HeLa cells using Oct-3/4 Polyclonal Antibody diluted at 1:1000

Storage

-20°C for one year

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