Ablumir
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Anti-Oct-3/4 Rabbit mAb [50G69]

Catalog No.: A52248

Basic Information

Catalog No. (Cat.No.)	A52248
Host species	Rabbit
Reactivity	Human,Mouse
Applications	WB,IHC,IP,IF,ELISA
Synonyms	Oct-3/4,Oct-4,Oct3/4,OCT4,Octamer binding factor 4

Product Information

Target	Oct-3/4
Molecular Weight(Calculated)	39 kDa
Molecular Weight(Observed)	45 kDa
Isotype	IgG,Kappa
Conjugation	NA
Concentration	0.2 mg/ml
Clonality	Monoclonal
Clone No.	50G69
RRID	NA
Storage buffer	50% Glycerol, 0.05% BSA and 0.05% preservative in PBS (pH 7.2-7.4)
Storage	Stored at -20°C for 1 year. Avoid repeated freeze / thaw cycles.
Shipped at conditions	Frozen
Form	Liquid

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Product Usage Information

Application	Dilution
WB	1:2000-1:10000
IHC	1:1000-1:5000
IP	1:50-1:200
IF	1:200-1:1000
ELISA	1:5000-1:20000

Target Information

Protein Name	Octamer-binding transcription factor-4
Gene Name	*POU5F1*
Domain	NA
Background	POU5F1 (Oct3/4, POU class 5 homeobox 1) belongs to POU homeobox transcription-factor family and sustains pluripotency and self-renewal of embryonic stem cells. As core pluripotency regulator, Oct3/4 cooperates with Sox2 and Nanog, binds Oct-Sox cis-elements to activate stem-ness programs and repress differentiation-associated genes. Its expression is restricted to early embryo, ESC and iPSC. Dosage of Oct3/4 delicately controls stem-cell fate; either elevation or reduction induces differentiation. It is nearly absent in most adult tissues but re-activated in cancer stem cells to sustain oncogenic stemness.