2200 Ringwood Ave. San Jose, CA 95131
1 (877) 594-3616 (Toll Free), (408) 747-0185
www.assaybiotechnology.com
tech@assaybiotech.com | order@assaybiotech.com

Oct-4 (AB2411) mouse mAb

W0457

Key Features

Host Species
• Mouse

Reactivity
• Human;

Applications
• WB; IF; ELISA

MW
• 39 kDa (calculated)
• 40 kDa (observed)

Isotype
• IgG2b, kappa

Recommended Dilution Ratios

Application	Dilution
WB; IF; ELISA	WB, 1:500-1:2000 | IF, 1:100-1:500 | ELISA, Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements.

Storage

Storage Conditions	Store at-20℃. Avoid freeze / thaw cycles.
Storage buffer	The antibody is provided in liquid form in phosphate - buffered saline with 50% glycerol, 0.05% BSA, and 0.05% Proclin 300.

Basic Information

Clonality	Monoclonal
Clone Number	AB2411
Immunogen	A synthetic peptide corresponding to the amino acid region 50 - 150 of the human 45934 protein.
Specificity	This antibody detects endogenous levels of Oct-4 protein.
Purification	Affinity purification Protein A
Concentration	Product concentration may vary by batch. Please refer to the product COA for details.

Target Information

Gene name	POU5F1
Protein Name	Oct-2 protein

Database Link

Organism	Swiss Prot.	Gene ID
Human	Q01860	5460

Background

This gene encodes a transcription factor containing a POU homeodomain that plays a key role in embryonic development and stem cell pluripotency. Aberrant expression of this gene in adult tissues is associated with tumorigenesis. This gene 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. [provided by RefSeq, Oct 2013]