



Oct-4 Antibody

E8M1003-6

- Catalog Number:** E8M1003-6
- Amount:** 100ul, 0.31mg/ml
- Description:** Oct-4 (POU5F1) is transcription factor that binds to the octamer motif (5'-ATTTGCAT-3'). It 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. Oct-4 is critical for early embryogenesis and for embryonic stem cell pluripotency. It is expressed in developing brain and highest levels also found in specific cell layers of the cortex, the olfactory bulb, the hippocampus and the cerebellum.
- Clone No:** A3-C11
- Reactivity:** Human, mouse
- Positive control:** D3
- Cellular Localization:** Cell nuclear
- SwissProt:** Q01860/P20263
- Molecular Wt:** 43/45kDa
- Form of Antibody:** Mouse monoclonal IgG1 in 1*TBS (pH7.4), 0.5%BSA, 25%Glycerol. Preservative: 0.05% Sodium Azide.
- Storage/Stability:** Store at +4°C after thawing. Aliquot store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
- Specificity/Sensitivity:** This antibody is produced by immunizing mouse with Oct-4 recombinant protein.
- Applications:** WB: 1:1,000 ICC: 1:50
- References:**
1. "Oct4 pseudogenes are transcribed in cancers."Suo G., Han J., Wang X., Zhang J., Zhao Y., Zhao Y., Dai J.Biochem. Biophys. Res. Commun. 337:1047-1051(2005)
 2. "Sumoylation of Oct4 enhances its stability, DNA binding, and transactivation."Wei F., Schoeler H.R., Atchison M.L.J. Biol. Chem. 282:21551-21560(2007)
 3. "Post-translational modification of POU domain transcription factor Oct-4 by SUMO-1."Zhang Z., Liao B., Xu M., Jin Y.FASEB J. 21:3042-3051(2007)

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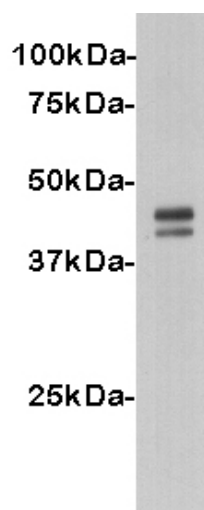


Fig: Western blot analysis on D3 cell lysates using anti-Oct 4 monoclonal antibody.

Fig: Western blot analysis on recombinant protein of FAM18B2 using anti-FAM18B2 monoclonal antibody.