Category: Monoclonal Antibodies **Catalog Number:** MAB-606020384
Product Name: Mouse Monoclonal Antibody to OCT4

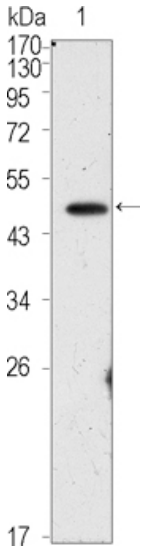

Figure 1: Western blot analysis using OCT4 mouse mAb against PMA treated HepG2 cell lysate (1).

Lot#:
Clone#: 3A5
Host and isotype: Mouse IgG1
Size: 0.1ml
MW: 39kDa
Aliases: OCT3; POU5F1

Description Members of Oct family of transcription factors specifically interact with Octamer motif ATGCAAAT, a regulatory element important for tissue- and cell-specific transcription as well as for transcription of a number of housekeeping genes. All of the members of the Oct family contain two highly conserved domains which are separated by 14-26 variable amino acids. These include the POU homeodomain and the POU-specific domain. Both are required for DNA binding and are involved in protein-protein interactions. Evidences indicate that regulation of Oct family transcription factors occurs at the level of phosphorylation. Oct4 is renowned as a transcription factor expressed by undifferentiated embryonic stem cells and embryonic germ cells.

Immunogen Purified recombinant fragment of OCT4 expressed in E. Coli.

Application Western Bloting: 1/500 - 1/2000.
ELISA: Propose dilution 1/10000.
Not yet tested in other applications.
Determining optimal working dilutions by titration test.

Formulation Ascitic fluid containing 0.03% sodium azide.

Storage Store at 4iæ, for long term storage, store at -20iæ.

Related product References 1. Stem Cells. 2009 Mar;27(3):543-9.
2. Genome Biol. 2008;9(12):R172.

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