

35-1678: Polyclonal Antibody to OCT4

Clonality :	Polyclonal
Application :	WB
Reactivity :	Human
Gene :	POU5F1
Gene ID :	5460
Uniprot ID :	Q01860
Format :	Purified
Alternative Name :	Otc3, OTF3, OTF4, OTF-3
Isotype :	Rabbit IgG
Immunogen Information :	Peptide sequence around aa.232~236 (R-K-R-T-S) derived from OCT-4

Description

Transcription factor that binds to the octamer motif (5'-ATTGTCAT-3'). 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. Critical for early embryogenesis and for embryonic stem cell pluripotency Pesce, M. and Scholer, H.R. (2001) Stem Cells 19, 271-278. Pan, G. and Thomson, J.A. (2007) Cell Res 17, 42-9. Cauffman, G. et al. (2006) Stem Cells 24, 2685-91.

Product Info

Amount :	50 µl / 100 µl
Content :	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage condition :	Store the antibody at 4°C, stable for 6 months. For long-term storage, store at -20°C. Avoid repeated freeze and thaw cycles.

Application Note

Predicted MW: 45kd, Western blotting: 1:1000

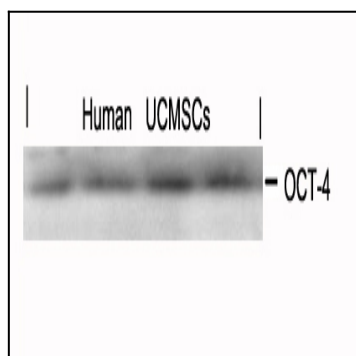


Figure 1: Western blot analysis of extracts from human Umbilical cord mesenchymal stem cell using OCT-4 Antibody 35-1678 .