Anti-UTF1 Antibody [E0-F4]

M1407-6

Product Type:	Mouse monoclonal IgG2b, primary antibodies
Species reactivity:	Human, Mouse, Rat
Applications:	WB, IF-Cell
Molecular Wt:	36-50 kDa
Clone number:	E0-F4

Description: Undifferentiated embryonic cell transcription factor 1 is a protein in humans that is encoded by the UTF1 gene. UTF1, first reported in 1998, is expressed in pluripotent cells including embryonic stem cells and embryonic carcinoma cells. Its expression is rapidly reduced upon differentiation. UTF1 protein is localized to the cell nucleus, where it functions to regulate the pluripotent chromatin state and buffer mRNA levels by promoting degradation of mRNA. Aberrant expression of UTF1 has also been reported in cervical cancer cells, where the UTF1 gene promoter loses methylation and becomes abnormally expressed compared to normal cervical cells.

Immunogen: Synthetic peptide within Human UTF1 aa 51-100 / 341.

Positive control: D3

Subcellular location: Nucleus

Database links: SwissProt: Q5T230 Human

Recommended Dilutions:

WB	1:500-1:1,000
IF-Cell	1:500-1:1,000

Storage Buffer: 1*PBS (pH7.4), 0.2% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.

Storage Instruction: Store at +4℃ after thawing. Aliquot store at -20℃ or -80℃. Avoid repeated freeze / thaw cycles.

Purity: Protein A affinity purified.

Images

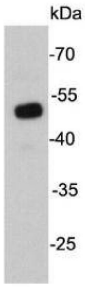

Fig1: Western blot analysis on D3 cell lysates using anti- UTF1 mouse mAb.

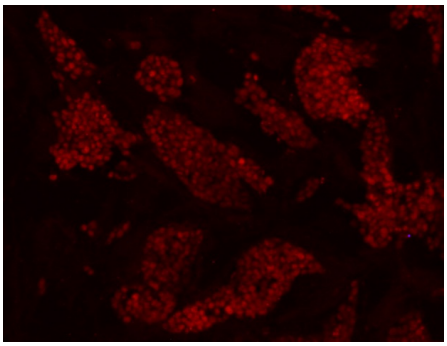

Fig2: ICC staining UTF1 in D3 cells (red). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.

Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

1. "Characterization of functional domains of an embryonic stem cell coactivator UTF1 which are conserved and essential for potentiation of ATF-2 activity." Fukushima A., Okuda A., Nishimoto M., Seki N., Hori T.A., Muramatsu M. J. Biol. Chem. 273:25840-25849(1998)
2. "Structural analyses of the UTF1 gene encoding a transcriptional coactivator expressed in pluripotent embryonic stem cells." Nishimoto M., Fukushima A., Miyagi S., Suzuki Y., Sugano S., Matsuda Y., Hori T., Muramatsu M., Okuda A. Biochem. Biophys. Res. Commun. 285:945-953(2001)
3. "System-wide temporal characterization of the proteome and phosphoproteome of human embryonic stem cell differentiation." Rigbolt K.T., Prokhorova T.A., Akimov V., Henningsen J., Johansen P.T., Kratchmarova I., Kassem M., Mann M., Olsen J.V., Blagoev B. Sci. Signal. 4:RS3-RS3(2011)