UTF1 Antibody

Catalog No: #48109

Package Size: #48109-1 50ul #48109-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

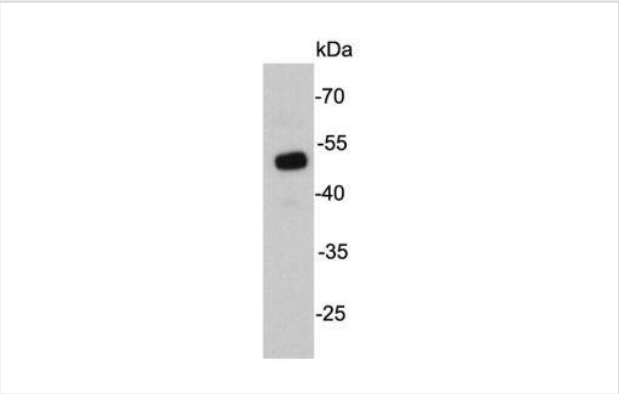
Description

Product Name	UTF1 Antibody
Host Species	Mouse
Clonality	Monoclonal
Clone No.	E0-F4
Purification	ProA affinity purified
Applications	WB, ICC
Species Reactivity	Human;Mouse;Rat
Immunogen Description	peptide
Conjugates	Unconjugated
Other Names	hUTF 1 antibody hUTF1 antibody Undifferentiated embryonic cell transcription factor 1 antibody UTF 1 antibody UTF1 antibody UTF1_HUMAN antibody
Accession No.	Swiss-Prot#:Q5T230
Calculated MW	36-50 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

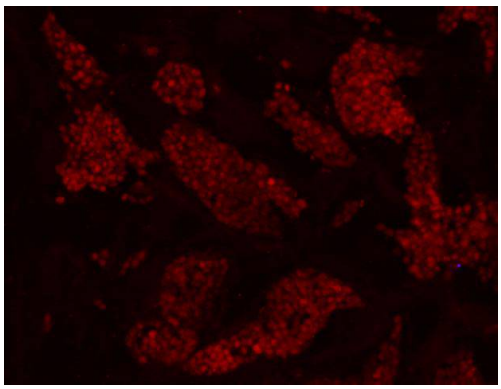
Application Details

WB: 1:500-1:1000ICC: 1:500-1:1,000

Images



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



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

Background

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.

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)

Published Papers

Lin Pochun, Cai Yimeng, Feng Ning, Yu Leixiao, Cao Shuqin, Yuan Quan el at., One-Pot Preparation of an Antioxidant, Anti-Inflammatory, and Analgesic Hydrogel for Oral Mucosal Lesions, ACS applied materials & interfaces, (2025)

PMID:40522041

Note: This product is for in vitro research use only and is not intended for use in humans or animals.