Human OSTF1 antibody

Catalog Number: ATGA0125

PRODUCT INFORMATION

Catalog number
ATGA0125

Clone No.
AT9G4

Product type
Monoclonal Antibody

UnitProt No.
Q92882

NCBI Accession No.
AAH07459

Alternative Names
Osteoclast stimulating factor 1, SH3P2, OSF, Osteoclast stimulating factor 1

PRODUCT SPECIFICATION

Antibody Host
Mouse

Reacts With
Human

Concentration
1mg/ml (determined by BCA assay)

Formulation
Liquid in. Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol

Immunogen
Recombinant human OSTF1 (1-217aa) purified from E. coli

Isotype
IgG2a kappa

Purification Note
By protein-G affinity chromatography

Application
ELISA,WB,ICC/IF,FACS

Usage
The antibody has been tested by ELISA, Western blot, ICC/IF and FACS analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.

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Storage

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

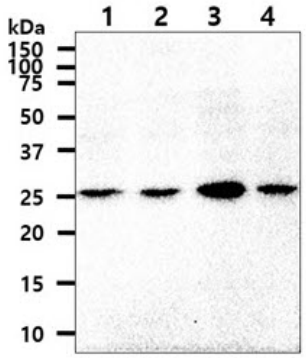
Osteoclast-stimulating factor (OSTF1) is an intracellular signaling protein, highly expressed by osteoclasts (OCL). Indirectly, it enhances osteoclast (OCL) formation and bone resorption through a cellular signal transduction cascade by possibly interacting with c-Src or other c-Src-related proteins. OSTF1 contains a short proline-rich N-terminal region, an SH3 domain, three ankyrin repeats and an aspartate-rich C-terminal region, suggesting that it is potentially involved in protein-protein interactions.

General References

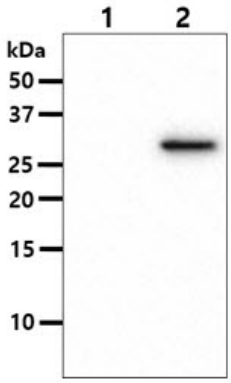
Kurihara N., et al. (2001) J. Biol. Chem. 276(44): 41035-9.
Reddy S., et al. (1999) J Cell Physiol. 177(4): 636-45.

DATA

Western blot analysis (WB)



The cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human OSTF1 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.
Lane 1.: HepG2 cell lysate
Lane 2.: MCF7 cell lysate
Lane 3.: Jurkat cell lysate
Lane 4.: LnCap cell lysate



The cell lysates (10ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human OSTF1 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.
Lane 1.: 293T cell lysate
Lane 2.: OSTF1 Transfected 293T cell lysate

Immunocytochemistry/Immunofluorescence (ICC/IF)

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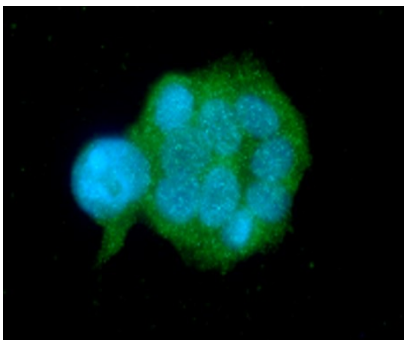
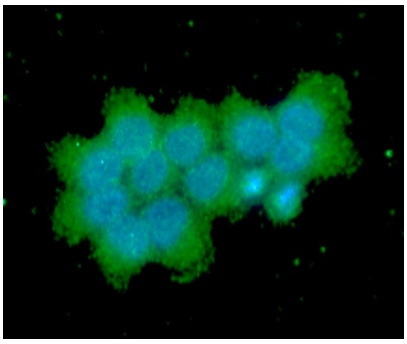
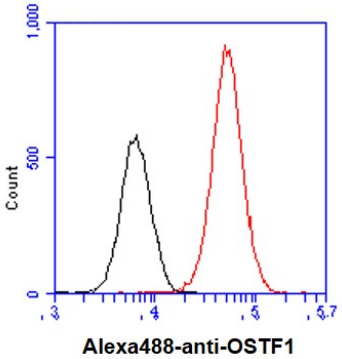


ICC/IF analysis of OSTF1 in MCF7 cells. The cell was stained with ATGA0125 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).



ICC/IF analysis of OSTF1 in A431 cells. The cell was stained with ATGA0125 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).

Flow cytometry (FACS)



Flow cytometry analysis of OSTF1 in HeLa cell line, staining at 2-5ug for 1x10^6cells (red line). The secondary antibody used goat anti-mouse IgG Alexa fluor 488 conjugate. Isotype control antibody was mouse IgG (black line).