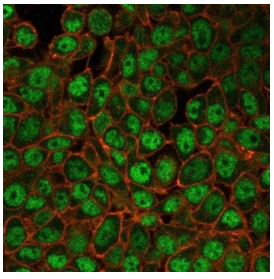
Upstream stimulatory factor 2 Antibody / USF2 [clone PCRP-USF2-1A7] (V4627)

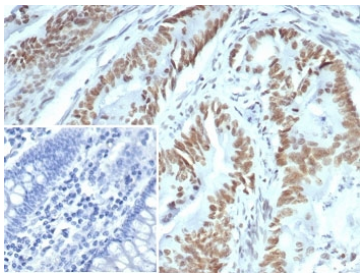
Catalog No.	Formulation	Size
V4627-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V4627-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V4627SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

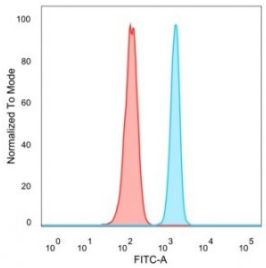
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2c, kappa
Clone Name	PCRP-USF2-1A7
Purity	Protein A/G affinity
UniProt	Q15853
Localization	Nucleus
Applications	Flow Cytometry : 1-2ug/million cells Immunofluorescence : 1-2ug/ml Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT
Limitations	This Upstream stimulatory factor 2 antibody is available for research use only.



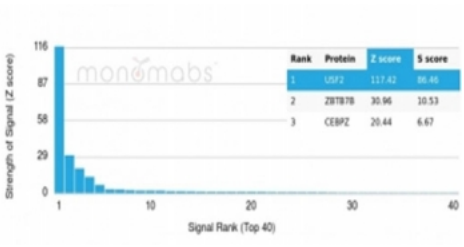
Immunofluorescent staining of PFA-fixed human HeLa cells with Upstream stimulatory factor 2 antibody (clone PCRP-USF2-1A7) followed by goat anti-mouse IgG-CF488 (green); Red = CF640R phalloidin.



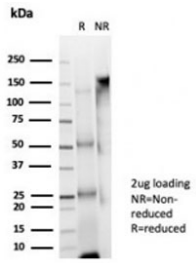
IHC staining of FFPE human colon carcinoma tissue with Upstream stimulatory factor 2 antibody (clone PCRP-USF2-1A7). Inset: PBS used in place of primary Ab (secondary Ab negative control). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



Flow cytometry testing of PFA-fixed human HeLa cells with Upstream stimulatory factor 2 antibody (clone PCRP-USF2-1A7) followed by goat anti-mouse IgG-CF488 (blue); Red = unstained cells.



Analysis of a HuProt(TM) microarray containing more than 19,000 full-length human proteins using Upstream stimulatory factor 2 antibody (PCRP-USF2-1A7). Z- and S-Score: The Z-score represents the strength of a signal that a monoclonal antibody (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProt(TM) array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProt(TM) are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a mAb to its intended target. A mAb is considered to specific to its intended target, if the mAb has an S-score of at least 2.5. For example, if a mAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that mAb to protein X is equal to 29.



SDS-PAGE analysis of purified, BSA-free Upstream stimulatory factor 2 antibody (clone PCRP-USF2-1A7) as confirmation of integrity and purity.

Description

The ubiquitously expressed cellular upstream stimulatory factor (USF) consists of USF-1 and USF-2 polypeptides which independently exhibit site-specific DNA binding and are members of the c-Myc-related family of regulatory factors containing helix-loop-helix domains. USF also contains a leucine repeat that is required for efficient DNA binding. USF was originally identified as an upstream stimulatory factor that binds the core sequence CACGTG in the adenovirus late promoter. These findings, together with the demonstration of cooperative interaction between USF and the initiatorbinding protein, TFII-I, raises the possibility of a more general involvement of USF in transcriptional regulation. While expression of both USF-1 and USF-2 species is ubiquitous, different ratios of USF homo- and heterodimers are found in different cell types.

Application Notes

Optimal dilution of the Upstream stimulatory factor 2 antibody should be determined by the researcher.

Immunogen

A recombinant partial protein sequence (within amino acids 220-346) from the human protein was used as the immunogen for the Upstream stimulatory factor 2 antibody.

Storage

Aliquot the Upstream stimulatory factor 2 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.