Technical Data Sheet

Purified Mouse Anti-LSF

Product Information

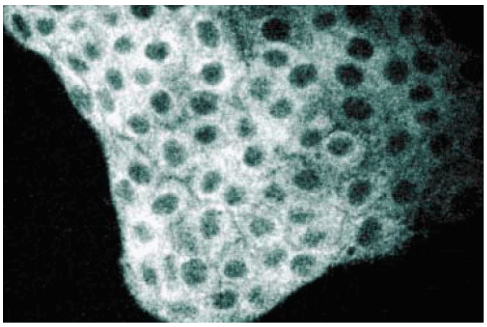
Material Number:	**610818**
Alternate Name:	αCP2; LBP-1c
Size:	50 µg
Concentration:	250 µg/ml
Clone:	14/LSF
Immunogen:	Human LSF aa. 205-414
Isotype:	Mouse IgG1
Reactivity:	QC Testing: Human Tested in Development: Mouse, Rat, Dog
Target MW:	63 kDa
Storage Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium azide.

Description

LSF (αCP2 or LBP-1c) is a transcription factor originally identified by its binding to, and induction of, the SV40 late promoter. LSF displays some similarity to the Elf-1/NTF transcription factors of Drosophila. It is primarily found in its dimeric form in solution, however it is the tetrameric form that recognizes a center-to-center 10 bp repeat. LSF-1D (LBP-1d) is the product of an alternative splicing event, resulting in a deletion of a 51 amino acid segment that corresponds with the DNA-binding region of LSF. LSF-1D is found in the cytoplasm, not in the nucleus, and can interact with LSF to form a heterotetramer that can interfere with LSF DNA binding. In mitogen-stimulated human peripheral T cells, LSF is phosphorylated on amino acid 291, which increases its DNA binding activity. Thus, LSF-mediated gene transcription is regulated by its phosphorylation and/or its interaction with LSF-1D during cell growth.

This antibody is routinely tested by western blot analysis. Other applications were tested in BD Biosciences Pharmingen during antibody development only or reported in the literature.

Western blot analysis of LSF on a HCT-8 cell lysate (Human colorectal adenocarcinoma; ATCC CCL-244). *Lane 1: 1:500, lane 2: 1:1000, lane 3: 1 2000 dilution of the mouse anti- LSF antibody.*



Immunofluorescence staining of MDCK cells (Canine kidney; ATCC CCL-34).

Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.
Store undiluted at -20° C.

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Application Notes

Application

Western blot	Routinely Tested
Immunofluorescence	Tested During Development

Recommended Assay Procedure:

Western blot: Please refer to http://www.bdbiosciences.com/pharmingen/protocols/Western_Blotting.shtml

Suggested Companion Products

Catalog Number	Name	Size	Clone
611474	HCT-8 Cell Lysate	500 µg	(none)
554002	HRP Goat Anti-Mouse Igs	1.0 ml	(none)
554001	FITC Goat Anti-Mouse Igs	0.5 mg	Polyclonal

Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.
3. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
4. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.

References

Shirra MK, Zhu Q, Huang HC, Pallas D, Hansen U. One exon of the human LSF gene includes conserved regions involved in novel DNA-binding and dimerization motifs. *Mol Biol Cell.* 1994; 14(8):5076-5087.(Biology)

Volker JL, Rameh LE, Zhu Q, DeCaprio J, Hansen U. Mitogenic stimulation of resting T cells causes rapid phosphorylation of the transcription factor LSF and increased DNA-binding activity. *Genes Dev.* 1997; 11(46):1435-1446.(Biology)