Technical Data Sheet

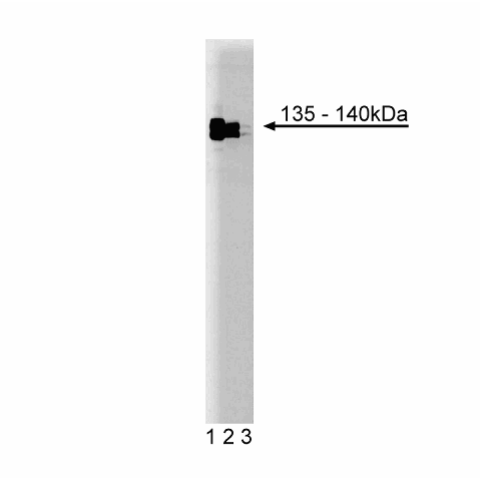
Purified Mouse Anti-TFII-I

Product Information

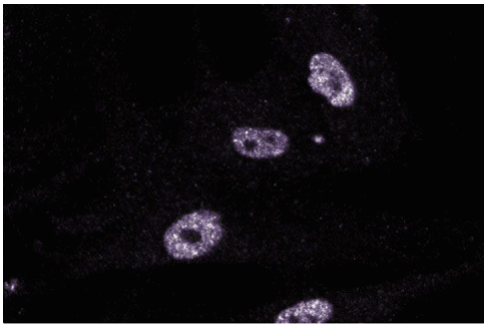
Material Number:	**610942**
Alternate Name:	BAP-135
Size:	50 µg
Concentration:	250 µg/ml
Clone:	42/TFII-I
Immunogen:	Human BAP-135 aa. 17-123
Isotype:	Mouse IgG1
Reactivity:	QC Testing: Human Tested in Development: Dog, Mouse, Rat
Target MW:	135/140 kDa
Storage Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium azide.

Description

General transcription factor II-I (GTF2I/TFII-I/SPIN/BAP-135) is a transcription factor that contains six directly repeated 90-residue regions, which possess helix-loop-helix protein-protein interaction motifs. TFII-I can regulate transcription in T-cells through interaction with the initiator elments (Inrs) within the AdML and Vβ promoters, and associates with HIV-1, TdT, and ribonucleotide reductase R1 Inrs. In addition, TFII-I associates with the E box motif, the CACGTG sequence, and with serum response element sequences. The helix-loop-helix repeats facilitate TFII-I interaction with other transcription factors, such as USF, Myc, Phox 1, MADS box protein serum response factor, and STATs. TFII-I was also identified as Bruton's tyrosine kinase (btk)-associated protein (BAP-135). TFII-I/BAP-135 is tyrosine phosphorylated by btk and after EGF stimulation, and this phosphorylation enhances TFII-I transcriptional activity. The wide expression of TFII-I and the interaction of TFII-I with various Inrs and transcription factors implicates TFII-I in various signaling pathways that regulate gene transcription.



Western blot analysis of TFII-I on HeLa cell lysate. *Lane 1: 1:1000, lane 2: 1:2000, lane 3: 1:4000 dilution of anti-TFII-I.*



Immunofluorescent staining of FHS cells.

Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

Store undiluted at -20°C.

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.

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Suggested Companion Products

Catalog Number	Name	Size	Clone
611449	HeLa Cell Lysate	500 µg	(none)
554002	HRP Goat Anti-Mouse Ig	1.0 ml	(none)
554001	FITC Goat Anti-Mouse Ig	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. 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.
4. Source of all serum proteins is from USDA inspected abattoirs located in the United States.

References

Yang W, Desiderio S. BAP-135, a target for Bruton's tyrosine kinase in response to B cell receptor engagement. *Proc Natl Acad Sci U S A.* 1997; 94(2):604-609. (Biology)