Technical Data Sheet

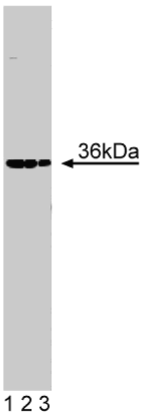
Purified Mouse Anti-p36

Product Information

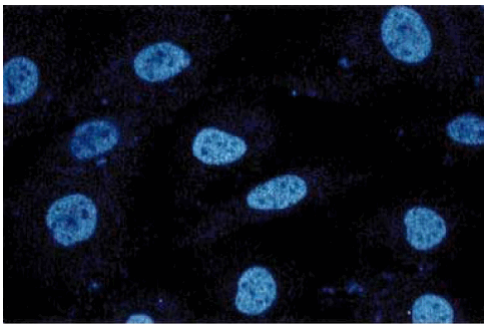
Material Number:	**610532**
Alternate Name:	MAT1; Menage A Trois-1
Size:	50 µg
Concentration:	250 µg/ml
Clone:	6/p36/MAT1
Immunogen:	Mouse p36 aa. 54-221
Isotype:	Mouse IgG1
Reactivity:	QC Testing: Mouse Tested in Development: Human, Rat, Dog, Chicken, Frog
Target MW:	36 kDa
Storage Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium azide.

Description

Regulation of the cell cycle by cyclin-dependent kinases (cdks) is controlled by the phosphorylation of a conserved threonine residue in their catalytic subunit. Cdks are activated as a result of the phosphorylation of another cyclin-dependent kinase, cdk-activating kinase (CAK). This kinase has two subunits: the catalytic Cdk7 and the regulatory cyclin H. A 36 kDa protein, p36 (also known as Menage A Trois-1 (MAT1)), coimmunoprecipitates with CAK. p36 is a member of the RING finger family of proteins characterized by a C3HC4 zinc-binding domain. p36 functions as a CAK assembly factor and is involved in the regulation of CAK activation.



Western blot analysis of p36 on a mouse macrophage cell lysate. *Lane 1: 1:1000, lane 2: 1:2000, lane 3: 1:4000 dilution of the mouse anti-p36 antibody.*



Immunofluorescence staining of rat fibroblasts.

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
Immunoprecipitation	Tested During Development
Immunofluorescence	Tested During Development
Immunohistochemistry	Not Recommended

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
611479	Mouse Macrophage 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

Fisher RP, Jin P, Chamberlin HM, Morgan DO. Alternative mechanisms of CAK assembly require an assembly factor or an activating kinase. *Cell.* 1995; 83(1):47-57.(Biology)

Saitoh H, Pizzi MD, Wang J. Perturbation of SUMOlation enzyme Ubc9 by distinct domain within nucleoporin RanBP2/Nup358. *J Biol Chem.* 2002; 277(7):4755-4763.(Biology: Immunofluorescence)

Takasaki Y, Kogure T, Takeuchi K, et al. Reactivity of anti-proliferating cell nuclear antigen (PCNA) murine monoclonal antibodies and human autoantibodies to the PCNA multiprotein complexes involved in cell proliferation. *J Immunol.* 2001; 166(7):4780-4787.(Biology: Western blot)