Technical Data Sheet

Purified Mouse Anti-Rb2

Product Information

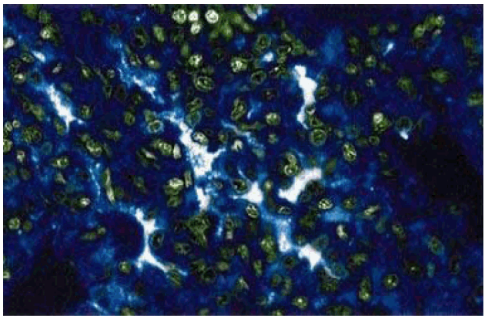
Material Number:	**610261**
Size:	50 µg
Concentration:	250 µg/ml
Clone:	10/Rb2
Immunogen:	Human Rb2 aa. 26-367
Isotype:	Mouse IgG2a
Reactivity:	QC Testing: Human Tested in Development: Mouse, Rat, Chicken, Dros.
Target MW:	130 kDa
Storage Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium azide.

Description

The pRb2 protein shows a high degree of identity with pRb and the related p107 protein. Both pRb and p107 bind to the adenovirus E1A, SV40 large T antigen, and papillomavirus E7 viral proteins. This binding initiates the release of transcription factors which are required for the expression of cell cycle-regulated genes. pRb, pRb2, and p107 interact with a conserved motif in these three viral proteins. In the E1A protein, this area is known as transforming domain 2, which is required for growth activation. The E1A-binding domain in pRb and p107 is a conserved motif known as the "pocket region" which consists of conserved A and B regions separated by non-conserved spacers of different sizes in pRb and p107. It is the pocket regions of pRb and p107 that associate with the E2F transcription factor. pRb2 also contains the conserved pocket region suggesting that it has functional similarities to pRb and p107.

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

Western blot analysis of Rb2 on a Jurkat cell lysate. *Lane 1: 1:1000, lane 2: 1:2000, lane 3: 1:4000 dilution of the anti- Rb2 antibody.*



Immunofluorescent staining of rabbit lung.

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
Immunohistochemistry	Tested During Development
Immunofluorescence	Tested During Development
Immunoprecipitation	Not Recommended

Suggested Companion Products

Catalog Number	Name	Size	Clone
611451	Jurkat 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. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
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. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.

References

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Mayol X, Grana X, Baldi A, Sang N, Hu Q, Giordano A. Cloning of a new member of the retinoblastoma gene family (pRb2) which binds to the E1A transforming domain. *Oncogene.* 1993; 8(9):2561-2566.(Biology)

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