

Instructions For Use				
RA0657-C-IFU-RUO				
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P.O. Box 3286 - Logan, Utah 84323, U.S.A. - Tel. (800) 729-8350 - Tel. (435) 755-9848 - Fax (435) 755-0015 - www.scytek.com

## Rb1 (Tumor Suppressor Protein); Clone 1F8 (Concentrate)

Availability/Contents:	<u>Item #</u> RA0657-C.1 RA0657-C.5 RA0657-C1	<u>Volume</u> 0.1 ml 0.5 ml 1 ml	
Description:			
Species:	Mouse		
Immunogen:	Recombinant human Rb1 protein fragment of 283 amino acid residues.		
Clone:	1F8		
Isotype:	IgG1 / Kappa		
Entrez Gene ID:	5925		
Hu Chromosome Loc.:	13q14.2		
Synonyms:	Retinoblastoma-associated protein, p105-Rb, p110-RB1, pRb, pp110, OSRC; Osteosarcoma; p105-Rb; PP105; pp110; pRb; Prepro retinoblastoma associated protein; RB1; Retinoblastoma 1; Retinoblastoma-associated protein		
Mol. Weight of Antigen:	105kDa		
Format:	200ug/ml of antibody purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide.		
Specificity:	Recognizes a 105kDa phosphoprotein, identified as retinoblastoma (Rb) gene product.		
Background:	Its epitope is localized between aa 703-772. It shows no cross reaction with p107 or p130. It specifically stains the nuclei of BT-20 cells and primary human foreskin fibroblast (HFF) cells. It does not stain the Rb-negative BT549 cells. It reacts with the hyperphosphorylated as well as the un (under) phosphorylated form of the Rb protein. Retinoblastoma gene product plays a key role in cell cycle control. It has been identified as a tumor suppressor gene whose loss of its function leads to tumor development. It is widely expressed in a variety of human tissues including breast, esophageal, squamous cell and cervical carcinoma.		
Species Reactivity:	Human, Mouse		
Positive Control:	A431 or BT-20 cells. Breas	st or Colon carcinoma., HeLa	
Cellular Localization:	Nucleus		
Titer/ Working Dilution:	Immunohistochemistry (Fr	ozen and Formalin-fixed): 1-2 μg/ml	
	Western Blotting:	2-4 μg/ml	
Microbiological State:	This product is not sterile.		

Storage: 2° C



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**Uses/Limitations:** 

Not to be taken internally. For Research Use Only. This product is intended for qualitative immunohistochemistry with normal and neoplastic formalin-fixed, paraffin-embedded tissue sections, to be viewed by light microscopy. Do not use if reagent becomes cloudy. Do not use past expiration date. Non-Sterile.

#### Ordering Information and Current Pricing at www.scytek.com



Formalin-fixed, paraffin-embedded human Colon stained with Retinoblastoma (Rb1) Monoclonal Antibody (1F8). HIER: Tris/EDTA, pH9.0, 45min. 2°C: HRP-polymer, 30min. DAB, 5min.

#### **Procedure:**

- 1. **Tissue Section Pretreatment (Highly Recommended):** Staining of formalin fixed, paraffin embedded tissue sections is significantly enhanced by pretreatment with Tris-EDTA HIER Solution (10x) pH 9.0 (ScyTek catalog# TES500) or Citrate Plus (10x) HIER Solution (ScyTek catalog# CPL500).
- 2. **Primary Antibody Incubation Time:** We suggest an incubation period of 30 minutes at room temperature. However, depending upon the fixation conditions and the staining system employed, optimal incubation should be determined by the user.
- 3. **Visualization:** For maximum staining intensity we recommend the "UltraTek HRP Anti-Polyvalent Lab Pack" (ScyTek catalog# UHP125, see IFU for instructions) combined with the "DAB Chromogen/Substrate Bulk Pack (High Contrast)" (ScyTek catalog# ACV500, see IFU for instructions).

 Precautions:
 Contains Sodium Azide as a preservative (0.09% w/v).

 Do not pipette by mouth.
 Avoid contact of reagents and specimens with skin and mucous membranes.

 Avoid microbial contamination of reagents or increased nonspecific staining may occur.
 This product contains no hazardous material at a reportable concentration according to U.S. 29 CFR 1910.1200, OSHA Hazardous Communication Standard and EC Directive 91/155/EC.

### **References:**

- 1. Grand et al. 1989. Oncogene. 4(11):1291-8
- 2. Bartek J, et. al. Oncogene 7:101-108, 1992
- Warranty: No products or "Instructions For Use (IFU)" are to be construed as a recommendation for use in violation of any patents. We make no representations, warranties or assurances as to the accuracy or completeness of information provided on our IFU or website. Our warranty is limited to the actual price paid for the product. ScyTek Laboratories, Inc. is not liable for any property damage, personal injury, time or effort or economic loss caused by our products. Immunohistochemistry is a complex technique involving both histological and immunological detection methods. Tissue processing and handling prior to immunostaining can cause inconsistent results. Variations in fixation and embedding or the inherent nature of the tissue specimen may cause variations in results. Endogenous peroxidase activity or pseudoperoxidase activity in erythrocytes and endogenous biotin may cause non-specific staining depending on detection system used.



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