



## **PROTEIN** BIOTECHNOLOGIES

### **POLYPYRIMIDINE TRACT BINDING PROTEIN (PTB; CLONE SH54)**

MOUSE MONOCLONAL ANTIBODY

**Catalog Number:** PBT-2144

**Description:** Polypyrimidine tract binding protein (PTB) is an abundant vertebrate hnRNP protein that functions as a splicing regulator with multiple targets. PTB exists as a 57 kDa protein that is found exclusively in the perinucleolar compartment (PNC) and regulates alternative splicing by binding to a specific pyrimidine tract sequence that is typically found near the 3' end of introns. The PNC in turn is a structure that is more prevalent in cancer cells than in normal cells. This latter observation suggests the possibility of using expression of PTB as a marker for tumor cells. In solution phase, PTB exists as a homodimer and in some cancer cells exists as two isoforms, the ratio of which appears to correlate with metastatic potential particularly in prostatic carcinoma. PTB is involved in the regulation of many different viral genomes such as that of hepatitis C virus.

**Size:** 100 ug  
*The vial is provided with a 10% overfill. Maximum recovery can be obtained by centrifuging the vial briefly to collect any solution on the cap and tube sides.*

**Species Cross-Reactivity:** Human. Negative for mouse and rat.

**Application/Dilutions:** Formalin-Fixed Paraffin: 2.5 ug/ml  
Immunofluorescence: 1-3 ug/ml\  
Western blot: 1.0 ug/ml

**Source:** Mice were immunized with human HeLa nuclear extract and fusing the splenocytes with Sp2/0 mouse myeloma cells.

**Form/Storage:** Purified IgG<sub>1</sub> with 50% glycerol, 0.01% sodium azide and 1.0 mg/ml BSA. Store at -20° C. Avoid multiple freeze/thaw cycles.

**FOR RESEARCH USE ONLY**