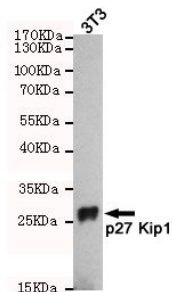




p27 KIP1

Mouse monoclonal Antibody

#53640

**Catalog Number:** 53640**Amount:** 100µg/100µl**Swiss-Prot No. :** P46527**Gene name:** cdkn1b**Gene id:** 1027**Clone Number:** 5B4-E6-E11-A8**Form of Antibody:** Purified mouse monoclonal in buffer containing 0.1M Tris-Glycine (pH 7.4, 150 mM NaCl) with 0.2% sodium azide, 50% glycerol**Storage/Stability:** Store at -20°C/1 year**Immunogen:** Purified recombinant human p27 KIP1 protein fragments expressed in E.coli**Purification:** affinity-chromatography**Specificity/Sensitivity:** This antibody detects endogenous levels of p27 KIP1 and does not cross-react with related proteins**Reactivity:** Human**Applications:** Predicted MW: 27kd WB: 1:1000

Western blot detection of p27 Kip1 in 3T3 cell lysates using p27 Kip1 mouse mAb (1:1000 diluted). Predicted band size: 27KDa. Observed band size: 27KDa.

**Background:**

This gene encodes a cyclin-dependent kinase inhibitor, which shares a limited similarity with CDK inhibitor CDKN1A/p21. The encoded protein binds to and prevents the activation of cyclin E-CDK2 or cyclin D-CDK4 complexes, and thus controls the cell cycle progression at G1. The degradation of this protein, which is triggered by its CDK dependent phosphorylation and subsequent ubiquitination by SCF complexes, is required for the cellular transition from quiescence to the proliferative state. Mutations in this gene are associated with multiple endocrine neoplasia type IV (MEN4).