

## Arg Monoclonal Antibody

<b>Catalog No :</b>	YM0046
<b>Reactivity :</b>	Human;Mouse
<b>Applications :</b>	WB;IF;ELISA
<b>Target :</b>	Arg
<b>Fields :</b>	>>ErbB signaling pathway;>>Ras signaling pathway;>>Chemical carcinogenesis - reactive oxygen species;>>Viral myocarditis
<b>Gene Name :</b>	ABL2
<b>Protein Name :</b>	Tyrosine-protein kinase ABL2
<b>Human Gene Id :</b>	27
<b>Human Swiss Prot No :</b>	P42684
<b>Mouse Swiss Prot No :</b>	Q4JIM5
<b>Immunogen :</b>	Purified recombinant fragment of Arg expressed in E. Coli.
<b>Specificity :</b>	Arg Monoclonal Antibody detects endogenous levels of Arg protein.
<b>Formulation :</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source :</b>	Monoclonal, Mouse
<b>Dilution :</b>	WB 1:500 - 1:2000. IF 1:200 - 1:1000. ELISA: 1:10000. Not yet tested in other applications.
<b>Purification :</b>	Affinity purification
<b>Storage Stability :</b>	-15°C to -25°C/1 year(Do not lower than -25°C)
<b>Molecularweight :</b>	128kD

**Cell Pathway :** ErbB\_HER;Viral myocarditis;

**P References :** 1. Yoshimi I, Takashi I, Tsuneyuki O, et al. Blood. 2000; 95(6): 2126-2131.  
2. Scheijen, B. and Griffin, J.D. Oncogene. 2002; 21:3314-33.

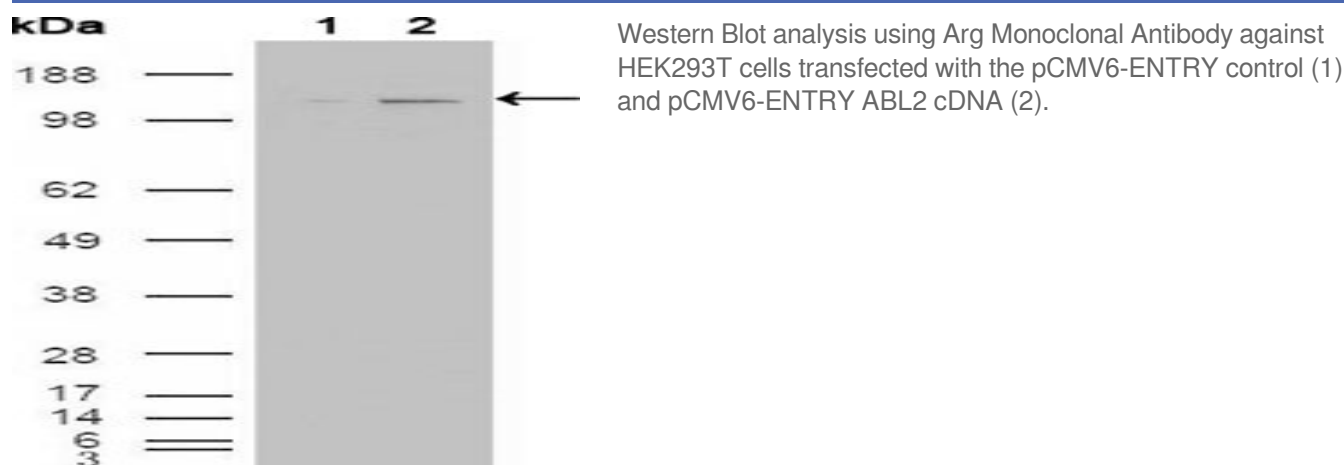
**Background :** This gene encodes a member of the Abelson family of nonreceptor tyrosine protein kinases. The protein is highly similar to the c-abl oncogene 1 protein, including the tyrosine kinase, SH2 and SH3 domains, and it plays a role in cytoskeletal rearrangements through its C-terminal F-actin- and microtubule-binding sequences. This gene is expressed in both normal and tumor cells, and is involved in translocation with the ets variant 6 gene in leukemia. Multiple alternatively spliced transcript variants encoding different protein isoforms have been found for this gene. [provided by RefSeq, Nov 2009],

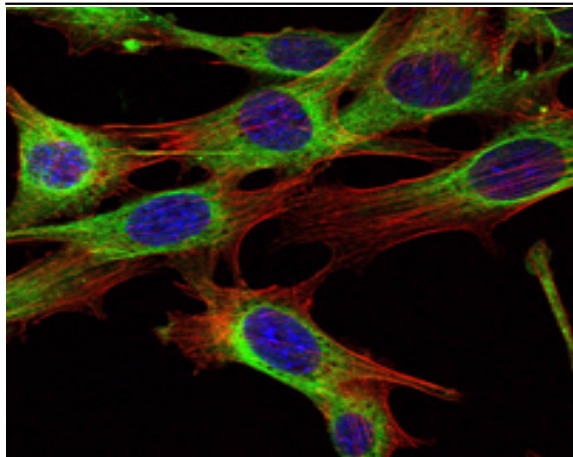
**Function :** catalytic activity:ATP + a [protein]-L-tyrosine = ADP + a [protein]-L-tyrosine phosphate.,caution:The sequence shown here is derived from an Ensembl automatic analysis pipeline and should be considered as preliminary data.,cofactor:Magnesium or manganese.,enzyme regulation:Stabilized in the inactive form by an association between the SH3 domain and the SH2-TK linker region, interactions of the amino-terminal cap, and contributions from an amino-terminal myristoyl group and phospholipids. Activated by autophosphorylation as well as by SRC-family kinase-mediated phosphorylation. Activated by RIN1 binding to the SH2 and SH3 domains. Inhibited by imatinib mesylate (Gleevec) which is used for the treatment of chronic myeloid leukemia (CML).,function:Regulates cytoskeleton remodeling during cell differentiation, cell division and cell adhesion. Localizes to dynamic actin structures, and phosph

**Subcellular Location :** Cytoplasm, cytoskeleton.

**Expression :** Widely expressed.

## Products Images





Immunofluorescence analysis of NIH/3T3 cells using Arg Monoclonal Antibody (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.