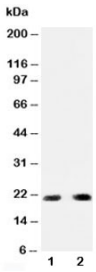
PUMA Antibody (R30371)

Catalog No.	Formulation	Size
R30371	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide/thimerosal
UniProt	Q9BXH1
Applications	Western Blot : 0.5-1ug/ml
Limitations	This PUMA antibody is available for research use only.



Western blot testing of PUMA antibody and Lane 1: HeLa; 2: rat kidney; Predicted molecular weight: 21/14/10/26kDa (isoforms alpha/beta/delta/gamma).

Description

The p53 upregulated modulator of apoptosis, or PUMA, is a pro-apoptotic member of the Bcl-2 protein family. The PUMA gene is located at 19q. PUMA transcript is contained within 4 exons, with the presumptive initiation codon in exon 2. The predicted 193-amino acid PUMA protein shares 91% amino acid identity with the murine sequence. Bcl-2 family members can form hetero- or homodimers, and they act as anti- or pro-apoptotic regulators that are involved in a wide variety of cellular activities. The expression of PUMA is regulated by the tumor suppressor p53, and PUMA has been shown to be involved in p53-mediated apoptosis. Additionally, PUMA encodes 2 BH3 domain-containing proteins, PUMA-alpha and PUMA-beta, that are produced through the use of an alternative first exon and are induced in cells following p53 activation. Furthermore, PUMA couples the nuclear and cytoplasmic proapoptotic functions of p53.

Application Notes

The stated application concentrations are suggested starting amounts. Titration of the PUMA antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

An amino acid sequence from the C-terminus of human PUMA (ADDLNAQYERRRQEE) was used as the immunogen for this PUMA antibody (100% homologous in human, mouse and rat). This sequence is common to isoforms alpha, beta, delta and gamma.

Storage

After reconstitution, the PUMA antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.