

Code No. 18881

**Anti-Human**

**ERA (*E. coli* Ras-like protein) Rabbit IgG Affinity Purify**

Volume : 100 µg

**Introduction** : ERA (*Escherichia coli* Ras-like protein) is an *E. coli* GTP binding protein that is essential for proliferation. A DNA database search suggests that homologous sequences with ERA exist in various organisms including human, mouse, *Drosophila*, *Caenorhabditis elegans* and *Antirrhinum majus*. However, the physiological function of eukaryotic ERA-like proteins is not known. The human homologue has been cloned (1). The mammalian homologue of ERA consists of a typical GTPase/GTP-binding domain and a putative K homology (KH) domain, which is known as an RNA binding domain. Human ERA possessing the amino acid substitution mutation into the GTPase domain induced apoptosis of HeLa cells, which was blocked by Bcl-2 expression. Thus, human ERA plays an important role in the regulation of apoptotic signaling with its GTPase/GTP binding domain.

**Antigen** : Synthetic peptide of middle part of human ERA (*E. coli* Ras-like protein) ((C)AVKDPNTQSVGNPQ)

**Purification** : Purified with antigen peptide

**Form** : Lyophilized product from 1% BSA in PBS containing 0.05% NaN<sub>3</sub>

**How to use** : 1.0 ml distilled water will be added to the product, then its concentration comes to 100 µg/ml

**Dilution** : PBS (pH7.4) containing 1% BSA

**Stability** : Lyophilized product, 5 years at 2 – 8 °C  
: Solution, 2 years at –20 °C

**Application** : This antibody can be stained in formalin fixed paraffin embedded tissues with trypsin pre-treatment by several Immunohistochemical techniques such as Avidin Biotin Complex (ABC) Method. The optimal dilution is about 5 µg/ml, however, the dilution rate should be optimized by each laboratories.  
: This antibody can be used for western blotting at about 1 µg/ml.

**Specificity** : Confirmed by western blotting using transfectant cells

**References** : 1. Akiyama T., Gohda J., Shibata S., Nomura Y., Azuma S., Ohmori Y., Sugano S., Arai H., Yamamoto T., and Inoue J. Mammalian homologue of *E. coli* ras-like GTPase (ERA) is a possible apoptosis regulator with RNA binding activity. *Genes to Cells* **6**: 987-1001 (2001)