

## Polyclonal Antibody to H/K/N-Ras - Aff - Purified

**Catalog No.:** AP06301PU-N

**Quantity:** 0.1 mg

**Concentration:** 1.0 mg/ml

**Background:** The KRAS gene encodes the human cellular homolog of a transforming gene isolated from the Kirsten rat sarcoma virus. The RAS proteins are GDP/GTP-binding proteins that act as intracellular signal transducers. The most well-studied members of the RAS (derived from 'Rat Sarcoma' virus) gene family include KRAS, HRAS, and NRAS. These genes encode immunologically related proteins with a molecular mass of 21 kD and are homologs of rodent sarcoma virus genes that have transforming abilities. While these wildtype cellular proteins in humans play a vital role in normal tissue signaling, including proliferation, differentiation, and senescence, mutated genes are potent oncogenes that play a role in many human cancers.

**Host:** Rabbit

**Immunogen:** Synthetic peptide, corresponding to amino acids 1-50 of Human Ras.

**Format:** **State:** Liquid purified Ig fraction (> 95% pure by SDS-PAGE)  
**Purification:** Affinity Chromatography using epitope-specific immunogen  
**Buffer System:** Phosphate buffered saline (PBS), pH7.2  
**Preservatives:** 0.05% Sodium Azide

**Applications:** **Western blot:** 1/500-1/1000.  
**Immunohistochemistry on paraffin sections:** 1/50-1/200.  
Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

**Molecular Weight:** ~ 21 kDa

**Specificity:** This antibody detects endogenous levels of RASH/RASK protein.  
(region surrounding His27)

**Species Reactivity:** **Tested:** Human.  
**Expected from sequence similarity:** Mouse and Rat.

**Storage:** Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.  
Avoid repeated freezing and thawing.  
Shelf life: One year from despatch.

Pictures:

**Western blot (WB) analysis of Ras antibody (Cat.-No.: AP06301PU-N) at 1/500 dilution**

Lane1:HEK293T whole cell lysate

Lane2:Hela whole cell lysate

Lane3:Mouse brain tissue lysate

Lane4:Rat heart tissue lysate

