Ras polyclonal antibody

Catalog: BS91158 Host: Rabbit Reactivity: Human, Mouse, Rat, zebrafish

BackGround:

The mammalian c-H-, c-K- and N-Ras proto-oncogenes encode guanine nucleotide-binding proteins that are ubiquitously expressed in vertebrate cells. c-H- and c-K-Ras are cellular homologs of the v-H and v-K-Ras sequences originally isolated from the Harvey and Kirsten strains of rat sarcoma virus. Ras-encoded proteins bind GDP and GTP with high affinity and possess a low level intrinsic GTPase activity that can be stimulated over 100-fold by interaction with cytosolic GTPase activating protein (GAP), a potential effector for Ras p21 function. Point mutations at amino acids 12, 13, 59 and 61 within domains responsible for GTP binding and hydrolysis activate Ras proteins to their oncogenic form and block the ability of the GTPase activity to be stimulated by GAP. Several additional proteins with GAP activity have been identified and shown to interact with p21 Ras or other members of the Ras gene family.

Product:

Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2

Molecular Weight:

21 kDa

Swiss-Prot:

P01111(Human) P01112(Human) P01116(Human)
P08556(Mouse) P32883(Mouse) Q61411(Mouse)
P08644(Rat) P20171(Rat) Q04970(Rat)

Purification&Purity:

ProA affinity purified

Applications:

WB:1:1,000-1:2,000
ICC:1:100-1:500

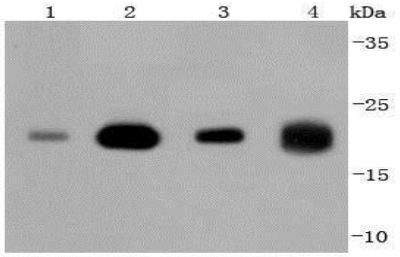
Storage&Stability:

Store at +4℃ after thawing. Aliquot store at -20℃ or -80℃. Avoid repeated freeze / thaw cycles.

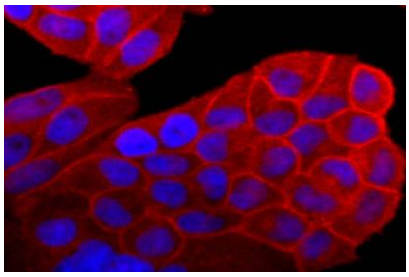
Specificity:

Ras polyclonal antibody detects endogenous levels of Ras protein.

DATA:



Western blot analysis of Ras on different lysates using anti-Ras antibody at 1/1,000 dilution. Positive control: Lane 1: 293T Lane 2: MCF-7 Lane 3: Hela Lane 4: zebrafish



ICC staining Ras in Hela cells (red). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.

Note:

For research use only, not for use in diagnostic procedure.

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