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Diagnostik & molekulare Diagnostik



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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Anti-p21Ras [KGH-R1] Bulk Size Ab03875-10.3-BT

This antibody was created using our proprietary Fc Silent™ engineered Fc domain containing key point mutations that abrogate binding to Fc gamma receptors.

This is a reformatted human IgG1 Fc Silent Fc Silent™ antibody, based on the original human IgG2b format, created for improved compatibility with existing reagents, assays and techniques.

Isotype and Format: Human IgG1, Fc Silent™, Kappa

Clone Number: KGH-R1

Alternative Name(s) of Target: p21; p21 ras protein; Ras; pan ras; K-Ras; GTPase Kras; KRAS2; RASK2; K-Ras 2; Ki-Ras; c-K-ras; c-Ki-ras; ras p21 protein; p21 ras; GTPase Hras; HRAS; H-RAS; HRAS; HRAS1; GTPase HRas; H-Ras-1; Ha-Ras; Transforming protein p21; c-H-ras; p21ras; N-RAS; NRAS; HRAS1; GTPase NRas; Transforming protein N-Ras

UniProt Accession Number of Target Protein: P01116; P01112; P01111

Published Application(s): ICC, IHC-FFPE, WB, ELISA, IF

Published Species Reactivity: Human

Immunogen: The original antibody was generated by immunizing BALB/c mice with H-p21Ras was used as an immunogen.

Specificity: This antibody recognizes human wild-type and mutant H-, K-, and N-Ras proteins. This ras protein binds GDP/GTP and possess intrinsic GTPase activity, that results in conversion of nucleotide guanosine triphosphate (GTP) into guanosine diphosphate (GDP). This protein plays an important role in many signal transduction pathways and regulation of cell proliferation. Somatic ras mutations are highly observed in leukemias, colorectal cancer, pancreatic cancer and lung cancer.

Application Notes: The binding reactivity of this antibody to H-p21Ras, K-p21Ras and N-p21Ras protein was determined using ELISA. This antibody was also capable of recognizing wild type and mutated ras protein from various normal and tumor cell lines using western blot and immunocytometry assay. This antibody presented strong immunoreactivity for 14 primary human cancer tissues but showed weak or negative immunoreactivity in the corresponding normal tissues. It was reported to bind positively with QGY7703, SMMC7721, HepG2: hepatocarcinoma; BGC853, MKN28: gastric cancer; HCT116: colorectal cancer; T24: bladder cancer; SKOV3: ovary cancer; MDA-MB-231, MDA-MB-435, MCF7: breast cancer; HeLa: cervical cancer; Hep2: laryngocarcinoma; C8166, K562 cell lines (PMID: 26897358). This antibody was also used in the immunohistochemical staining of FFPE section of colorectal tissues, colorectal inflammatory polyps, colorectal low-grade intraepithelial neoplasia, colorectal high-grade intraepithelial neoplasia,

invasive colorectal carcinomas and corresponding adjacent tissues. The immunoreactivity was measured by evaluating percentage of positive cells and histological score (HSCORE) (PMID: 21138685). This antibody can also be used in the immunofluorescent staining of various normal and cancer tissues (PMID: 32664770).

Antibody First Published in: Yang et al. A novel anti-p21Ras scFv antibody reacting specifically with human tumor cell lines and primary tumor tissues. BMC Cancer. 2016; 16: 131. [PMID:26897358](#)

Note on publication: Describes the generation of an scFv antibody against p21ras protein and evaluates its binding reactivity with different human cancerous tissues.

Product Form

Size: 1 mg Purified antibody in bulk size.

Purification: Protein A affinity purified

Supplied In: PBS only.

Storage Recommendation: Store at 4°C for up to 3 months. Note, this antibody is provided without added preservatives, it is therefore recommended this antibody be handled under sterile conditions. For longer storage, aliquot and store at -20°C.

Concentration: 1 mg/ml.

Important note - This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.