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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-KRAS G12V [G12V-34] Standard Size Ab04234-30.11

This is an scFv fragment with a His tag.

This is a reformatted mouse scFv antibody, based on the original mouse scFv format, created for improved compatibility with existing reagents, assays and techniques.

Isotype and Format: scFv fragment (His), ScFv

Clone Number: G12V-34

Alternative Name(s) of Target: Mutated KRAS G12V; Mutated Kirsten rat sarcoma viral oncogene homolog G12V; Kirsten Rat Sarcoma virus; Kirsten Rat Sarcoma virus; C-K-RAS; CFC2; K-RAS2A; K-RAS2B; K-RAS4A; K-RAS4B; KI-RAS; KRAS1; KRAS2; NS; NS3; RALD; RASK2; K-ras; KRAS proto-oncogene; GTPase; c-Ki-ras2; OES; c-Ki-ras; K-Ras 2; 'C-K-RAS; K-Ras

UniProt Accession Number of Target Protein:

Published Application(s): MTT cytotoxicity assay, ELISA, IF

Published Species Reactivity: Human

Immunogen: The original antibody was generated through the construction of a phage-displayed single-chain fragment variable (scFv) library from mice splenocytes immunized with specific mimotope peptides. The library was subjected to three rounds of biopanning on G12V and G13D peptide-coated plates.

Specificity: This antibody is specific for mutated KRAS G12V.

Application Notes: The original format of this antibody (scFv) was screened against WT and mutated G12 and G13 KRAS and shown to specifically bind mKRAS G12V in an ELISA. The scFv format of this antibody was fused to mHALT-1 toxin and exhibited cytotoxic effects on SW-480 colorectal cancer cells with IC₅₀ of 25.39 µg/mL, with minimal cytotoxicity effect on NHDF cells. The scFv format of this antibody was fused to enhanced GFP and used for IF (Teo et al., 2021; PMID: 33959410).

Antibody First Published in: Teo et al. Development of a single-chain fragment variable fused-mutant HALT-1 recombinant immunotoxin against G12V mutated KRAS colorectal cancer cells PeerJ. 2021 Apr 15;9:e11063. doi: 10.7717/peerj.11063 [PMID:33959410](#)

Note on publication: The original publication describes the development of a targeted therapy for KRAS-mutated colorectal cancer cells by creating a recombinant anti-mKRAS single-chain fragment variable fused with mutant Hydra actinoporin-like-toxin-1 immunotoxin.

Product Form

Size: 100 µg Purified antibody.

Purification: Purified by Immobilized Metal Affinity Chromatography

Supplied In: PBS with 0.02% Proclin 300.

Storage Recommendation: Store at 4°C for up to 3 months. 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.