Product name	**KRAS 2B**
Catalog number	RA145561
Uniprot ID	**P01116-2**

Product description

KRAS 2B: Ras proteins bind GDP/GTP and possess intrinsic GTPase activity. Plays an important role in the regulation of cell proliferation. Plays a role in promoting oncogenic events by inducing transcriptional silencing of tumor suppressor genes (TSGs) in colorectal cancer (CRC) cells in a ZNF304-dependent manner.

Synonyms: KRAS2, RASK2

Protein sequence

KRAS_2B
MHHHHHHGKPIPNPLLGLDSTENLYFQGIDPFTTEYKLVVVGAGGVGKSALTIQLIQNHFVDEYDPTIEDSYRKQVVIDGETCLLDILDTAGQE
EYSAMRDQYMRTGEGFLCVFAINNTKSFEDIHHYREQIKRVKDSEDVPMVLVGNKCDLPSRTVDTKQAQDLARSYGIPFIETSAKTRQGVDDA
FYTLVREIRKHKEK

Product features and protocols

Key features

1	Purity	>95% as determined by SDS-PAGE
2	Labelling	**Arg**-$^{13}C_6$,$^{15}N_4$ | **Lys**-$^{13}C_6$,$^{15}N_2$
3	Isotopic incorporation	>98% as determined by LC-MS/MS analysis of digested SIL-protein

Other features

Predicted MW	22.897 kDa
Expression System	E.coli
Purification Tag	polyHis tag at the N-terminus end
Protein content	Quantitation is carried out by UV Absorbance at 280 nm
Formulation	Lyophilized: 150 mM NaCl 2 mM MgCl2 20 mM HEPES pH 7.5

Product preparation

For product preparation we recommend the following steps:

1. Briefly centrifuge the tube before opening
2. Reconstitute by adding the appropriate volume of ultrapure water for a final concentration of 200 µg/ml (e.g. 50 µl for 10 µg or 250 µl for 50 µg conditioning)
3. Vortex gently to insure complete dissolution
4. Wait 15 minutes at Room temperature before proceeding further
5. Vortex gently again and centrifuge briefly

Product storage

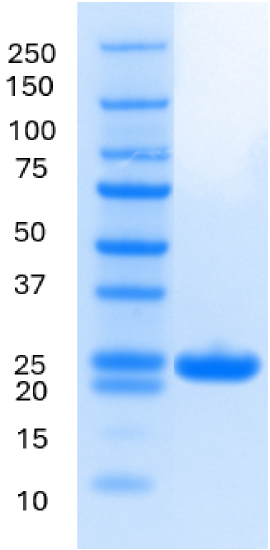
The product is lyophilized and shipped at room temperature. **Store at -80 °C upon receipt.**
After reconstitution, the protein can be preserved at 4°C for a few weeks.

Avoid multiple freeze-thaw cycles

How to use our product

SIL proteins allow to overcome the process variability since they are added at the very beginning of a sample preparation. This has potential positive impact on your analyte quantification, especially if the analyte interacts with other species commonly present within the matrix (1).

Supporting information



KRAS 2B RA145561:
SDS-PAGE gel analysis in Reducing/Heated conditions (RH).
Stained with Coomassie blue.

References

1. **G.Picard, D. Lebert, et al.** PSAQ standards for accurate MS-based quantification of proteins: from the concept to biomedical applications, J. Mass Spectrom. 2012, 47, 1353-1363

The product is intended for research use only. Not for diagnostic or therapeutic use.

Legal

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Promise Proteomics	DATA SHEET_RA145561_V01_ RAS 2B

	Name Surname	Position	Date	Signature
Writing	Wilfried Bardet	Bioproduction Manager	29JAN2025	
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Approval	Wilfried Bardet	Bioproduction Manager	29JAN2025	

Version	Application date	Modifications history
01	29JAN2025	Creation