

Recombinant Human GTPase KRas/KRAS (G12D) (GMPPNP load) Protein

Catalog No.: RP02974LQ

Sequence Information

Species **Gene ID**
Human 3845

Swiss Prot **Tags**
P01116-2 N-8His

Synonyms

KRAS, KRAS2, RASK2, GTPase
KRas, GTPase KRas, N-terminally
processed

Product Information

Source **Purification**
E. coli > 95 % as
determined by
SDS-PAGE.

Calculated MW **Observed MW**
21.5 kDa 22-25 kDa

Endotoxin

Please contact us for more
information.

Formulation

Supplied as a 0.22 µm filtered
solution in 20mM Tris, 150mM
NaCl, 1mM DTT, 10% glycerol, pH7.
4

Reconstitution

Background

Ras proteins bind GDP/GTP and possess intrinsic GTPase activity.
Plays an important role in the regulation of cell proliferation.
Activates MAPK1/MAPK3 resulting in phosphorylation and ultimately
degradation of GJA1.
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.

Basic Information

Description

Recombinant Human GTPase KRas/KRAS (G12D) (GMPPNP load) Protein is
produced by E. coli expression system. The target protein is expressed with
sequence (Met1-Lys169) of Human GTPase KRas/KRAS (Accession #P01116-
2) fused with His tag at the N-Terminus.

Activity

KRAS-G12D activity test using HTRF method.

Shipping

Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -70°C

Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for
handling.

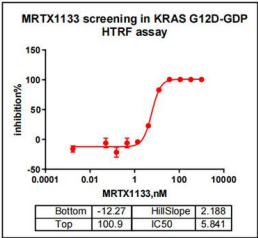
Contact

☎ | 400-999-6126

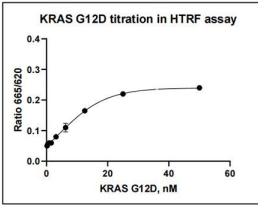
✉ | cn.market@abclonal.com.cn

🌐 | www.abclonal.com.cn

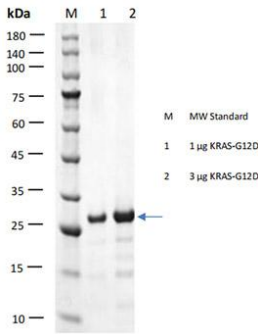
Validation Data



KRAS-G12D activity test using HTRF method. The KRAS-G12D activity was assayed with HTRF technology. The reaction was performed by incubating the KRAS-G12D protein, GTP, cRAF and beads at 25°C for 60 min, then reading Ratio 665/620nm signal with BMG.



KRAS-G12D activity test using HTRF method. The KRAS-G12D activity was assayed with HTRF technology. The reaction was performed by incubating the KRAS-G12D protein, GTP, cRAF and beads at 25°C for 60 min, then reading Ratio 665/620nm signal with BMG.



Recombinant Human GTPase KRas/KRAS (G12D) Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.