abcam

Product datasheet

Anti-GTPase HRAS antibody ab97488

4 References 画像数 3

医薬用外毒物

製品の概要

製品名	Anti-GTPase HRAS antibody
製品の詳細	Rabbit polyclonal to GTPase HRAS
由来種	Rabbit
アプリケーション	**適用あり:** WB, IHC-P, ICC/IF
種交差性	**交差種:** Human **交差が予測される動物種:** Rat
免疫原	Synthetic peptide, corresponding to a region within amino acids 111-176 of GTPase HRAS (NP_005334). Run BLAST with ExPASy Run BLAST with NCBI
ポジティブ・コントロール	293T, A431, HeLa, HepG2 and MOLT4 cell lysates for WB; HeLa cells for ICC/IF; OVCAR3 xenograft for IHC-P

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
バッファー	pH: 7.00 Preservative: 0.01% Thimerosal (merthiolate) Constituents: 20% Glycerol, 1.21% Tris, 0.75% Glycine
精製度	Immunogen affinity purified
ポリ/モノ	ポリクローナル
アイソタイプ	IgG

アプリケーション

Our Abpromise guarantee covers the use of **ab97488** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

アプリケーション	Abreviews	特記事項
WB		1/500 - 1/3000. Predicted molecular weight: 21 kDa.
IHC-P		1/100 - 1/500.
ICC/IF		1/100 - 1/200.

ターゲット情報

機能

Ras proteins bind GDP/GTP and possess intrinsic GTPase activity.

関連疾患

Defects in HRAS are the cause of faciocutaneoskeletal syndrome (FCSS) [MIM:218040]. A rare condition characterized by prenatally increased growth, postnatal growth deficiency, mental retardation, distinctive facial appearance, cardiovascular abnormalities (typically pulmonic stenosis, hypertrophic cardiomyopathy and/or atrial tachycardia), tumor predisposition, skin and musculoskeletal abnormalities.
Defects in HRAS are the cause of congenital myopathy with excess of muscle spindles (CMEMS) [MIM:218040]. CMEMS is a variant of Costello syndrome.
Defects in HRAS may be a cause of susceptibility to Hurthle cell thyroid carcinoma (HCTC) [MIM:607464]. Hurthle cell thyroid carcinoma accounts for approximately 3% of all thyroid cancers. Although they are classified as variants of follicular neoplasms, they are more often multifocal and somewhat more aggressive and are less likely to take up iodine than are other follicular neoplasms.
Note=Mutations which change positions 12, 13 or 61 activate the potential of HRAS to transform cultured cells and are implicated in a variety of human tumors.
Defects in HRAS are a cause of susceptibility to bladder cancer (BLC) [MIM:109800]. A malignancy originating in tissues of the urinary bladder. It often presents with multiple tumors appearing at different times and at different sites in the bladder. Most bladder cancers are transitional cell carcinomas. They begin in cells that normally make up the inner lining of the bladder. Other types of bladder cancer include squamous cell carcinoma (cancer that begins in thin, flat cells) and adenocarcinoma (cancer that begins in cells that make and release mucus and other fluids). Bladder cancer is a complex disorder with both genetic and environmental influences.
Note=Defects in HRAS are the cause of oral squamous cell carcinoma (OSCC).

配列類似性

Belongs to the small GTPase superfamily. Ras family.

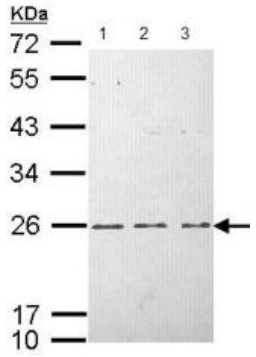
翻訳後修飾

Palmitoylated by the ZDHHC9-GOLGA7 complex. A continuous cycle of de- and re-palmitoylation regulates rapid exchange between plasma membrane and Golgi.
S-nitrosylated; critical for redox regulation. Important for stimulating guanine nucleotide exchange. No structural perturbation on nitrosylation.

細胞内局在

Cell membrane. Golgi apparatus membrane. The active GTP-bound form is localized most strongly to membranes than the inactive GDP-bound form (By similarity). Shuttles between the plasma membrane and the Golgi apparatus.

画像



Western blot - Anti-GTPase HRAS antibody (ab97488)

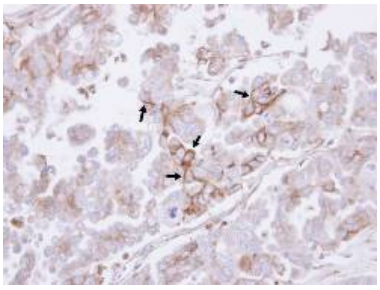
All lanes : Anti-GTPase HRAS antibody (ab97488) at 1/1000 dilution

Lane 1 : HeLa whole cell lysate
Lane 2 : HepG2 whole cell lysate
Lane 3 : MOLT4 whole cell lysate

Lysates/proteins at 30 µg/ml per lane.

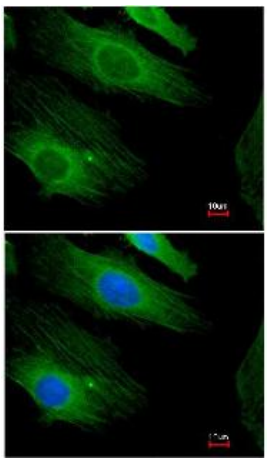
Predicted band size: 21 kDa

12% SDS PAGE



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-GTPase HRAS antibody (ab97488)

Immunohistochemical analysis of paraffin-embedded OVCAR3 xenograft, using ab97488 at 1/500 dilution.



Immunocytochemistry/ Immunofluorescence - Anti-GTPase HRAS antibody (ab97488)

Immunofluorescence analysis of paraformaldehyde-fixed HeLa cells, using ab97488 at 1/200 dilution. Lower image merged with DNA probe.

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