

Anti-Ras antibody ab180772

★★★★★ [7 Abreviews](#) [33 References](#) [画像数 2](#)

製品の概要

製品名	Anti-Ras antibody
製品の詳細	Rabbit polyclonal to Ras
由来種	Rabbit
特異性	The immunogen used for this product shares 82% homology with HRAS and NRAS. Cross-reactivity with these proteins has not been confirmed experimentally.
アプリケーション	適用あり: IP, WB, IHC-P, ICC/IF
種交差性	交差種: Mouse, Rat, Human
免疫原	Recombinant fragment corresponding to Human Ras aa 30-189. Sequence:

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D EYDPTIEDSY RKQVVIDGET CLLDILDTAG
QEEYSAMRDQ YMRTGEGFLC VFAINNTKSF
EDIHHYREQI KRVKDESDVP MVLVGNKCDL
PSRTVDTKQA QDLARSYGIP FIETSAKTRQ
RVEDAFYTLV REIRQYRLKK ISKEEKTPGC VKIKKCIIM
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Database link: [P01116](#)

 [Run BLAST with](#)

 [Run BLAST with](#)

ポジティブ・コントロール	WB: A-549, HeLa and Raji cell lysates. Mouse spleen, lung and rat brain tissue extracts. ICC/IF: C6 cells.
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特記事項

The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.

If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.

バッファー	pH: 7.30 Preservative: 0.02% Sodium azide Constituents: 49% PBS, 50% Glycerol
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

The Abpromise guarantee **Abpromise保証は、次のテスト済みアプリケーションにおけるab180772の使用に適用されます**
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
IP		Use at an assay dependent concentration.
WB	★★★★☆ (3)	1/500 - 1/1000. Predicted molecular weight: 21 kDa.
IHC-P	★★★★★ (1)	Use at an assay dependent concentration. ab171870 - Rabbit polyclonal IgG, is suitable for use as an isotype control with this antibody.
ICC/IF	★★★★★ (1)	1/50 - 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	<p>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.</p> <p>Defects in HRAS are the cause of congenital myopathy with excess of muscle spindles (CMEMS) [MIM:218040]. CMEMS is a variant of Costello syndrome.</p> <p>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.</p> <p>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.</p> <p>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</p>

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

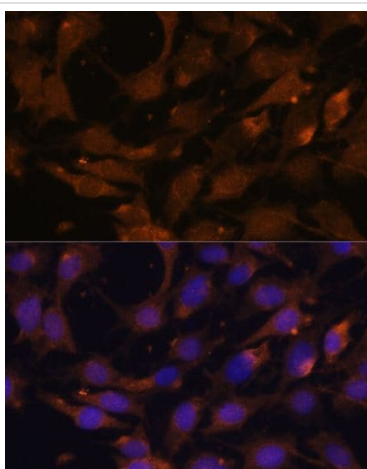
Palmitoylated by the ZDHHC9-GOLGA7 complex. A continuous cycle of de- and re-palmitoylation regulates rapid exchange between plasma membrane and Golgi.

S-nitrosylated; critical for redox regulation. Important for stimulating guanine nucleotide exchange. No structural perturbation on nitrosylation.

細胞内局在

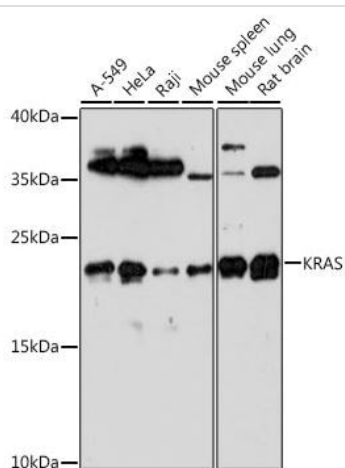
Cell membrane. Golgi apparatus membrane. The active GTP-bound form is localized most strongly to membranes than the inactive GDP-bound form (By similarity). Shuttles between the plasma membrane and the Golgi apparatus.

画像



Immunofluorescence staining of C6 cells stained for RAS with ab180772 at 1/100 dilution. Nuclei are labeled with DAPI (Blue).

Immunocytochemistry/ Immunofluorescence - Anti-Ras antibody (ab180772)



Western blot - Anti-Ras antibody (ab180772)

All lanes : Anti-Ras antibody (ab180772) at 1/1000 dilution

Lane 1 : A-549 cell extract

Lane 2 : HeLa cell extract

Lane 3 : Raji cell extract

Lane 4 : Mouse spleen tissue extract

Lane 5 : Mouse lung tissue extract

Lane 6 : Rat brain tissue extract

Lysates/proteins at 25 µg per lane.

Secondary

All lanes : HRP Goat Anti-Rabbit IgG

Developed using the ECL technique.

Predicted band size: 21 kDa

Exposure time: 90 seconds

Blocking buffer: 3% nonfat dry milk in TBST.

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