



FabGennix Inc.
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Antibodies Human CAB2 protein (MGC9753)

Anti-CAB2-Antibodies; Cat # MGC9753-101AP; MGC9753-112AP; MGC9753-121AP and MGC9753-131AP.

Certain loci on human chromosome 17q12 are frequently amplified in various types of cancers. One of such loci is PPIR1B-ERBB2-GRB7 which is greatly amplified in gastric and breast cancer. Search of other genes that reside close to this recombination hot spot or "fragile loci" led to discovery of several genes, one of these genes is a new theoretical protein MGC9753 is localized on chromosome 17 at cytogenetic location of 17q21.2. The detailed analyses of the amplicon structure in 330 breast tumors samples revealed a 280 kb common region of amplification that contains 10 genes that include 8 known genes. A highly significant association between amplification and expression levels was observed for 6 genes including ERBB2 and 2 uncharacterized hypothetical proteins, MGC9753 and MGC14832 in breast carcinoma and human gastric cancer samples (1, 2).

MGC9753 is located on human chromosome 17q12 and is in the amplicon cluster consist of PPP1R1B-STAR3D3-TCAP-PNMT-MGC9753-ERBB2-MGC14832-GRB7 with in the 120 kb region locus on human chromosome 17q12. The MGC9753 protein is a 7 transmembrane receptor with an extracellular six-cystein domain (3). The human and mouse MGC9753 protein is a 320 amino acid 7-transmembrane protein with 8 exons exhibiting 90.6% total maino acid identity with human CAB2 aberrant protein, which lacked the 3rd transmembrane domain due to a frame shift mutation with in the ORF (3).

The CAB2 (MGC9753-selective) antibodies were generated in rabbits against synthetic N, mid-region and C-terminal peptides that are unique to MGC9753 protein. FabGennix Inc. has generated specific rabbit anti-MGC9753 polyclonal mono-epitope-specific antibodies utilizing linear or cyclic peptide methodology. These antibodies have been characterized for cross-reactivity with other members of the amplicon related proteins. FabGennix Inc. has produced antibodies to multiple epitopes of the same protein, to facilitate studies utilizing epitope analyses and other functional and interspecies assays. *FabGennix Inc.* also provides limited quantities of all antigenic blocking peptides for MGC9753 antibodies.

Catalog #	Host	Description	Antigen/Positive control	Cross reactivity	Price
CAB2-101AP	Rabbit	Affinity purified CAB2 Antibody	Near N-terminal peptide	H*	\$235
CAB2-112AP	Rabbit	Affinity purified CAB2 Antibody	Mid-region peptide	H*	\$235
CAB2-121AP	Rabbit	Affinity purified CAB2 Antibody	Near C-terminal peptide	H*	\$235
CAB2-131AP	Rabbit	Affinity purified CAB2 Antibody	Near C-terminal peptide	H*	\$235
P-CAB2-101	n/a	N-terminal antigenic blocking peptide	N-terminal peptide	250 ug	\$85
P-CAB2-112	n/a	Mid-region antigenic blocking peptide	Mid-region peptide peptide	250 ug	\$85
P-CAB2-121	n/a	C-terminal antigenic blocking peptide	C-terminal peptide	250 ug	\$85
P-CAB2-131		Near C-terminal antigenic blocking peptide			

R = rat; M = mouse; H = humans; R = rabbit * Actual volume is 150-200 µl; W.B, Western Blot analyses; IMM, Immunoprecipitation; IHC, Immunohistochemistry, n.d, not determine; * cross reactivity to other species have not been determined.

Immunogen: Antigenic peptides used to generate these antibodies are: MGC9753-101AP: EPG QTS VAP PPE EVE PGS C; for MGC9753-112AP: SAV KEQ YPG IEI SRL GGT C; MGC9753-121AP: CEI EIN GQL VFS KLE NGG F; and for MGC9753-131AP: SNG ETL EKI TNS RPP C.

Concentration: MGC9753-101AP; MGC9753-112AP; and MGC9753-121AP and MGC9753-131AP have their IgG concentration at 0.5-0.75 mg/ml.

Applications: ELISA: Antibody dilution 1:15,000-20,000 for ELISA or DOT blot assay. W.B: n.d. IMM: n.d; IHC n.d.

Protocols: Standard protocol for various applications (Western blot; immunoprecipitation and immunohistochemistry) of this antibody is provided with the product specification sheet, however, FabGennix Inc. recommends investigators to optimize conditions.

Form/Storage: The antiserum is supplied in antibody stabilization buffer. For long-term storage of antibody, store at -20°C FabGennix Inc. does not recommend storage of very dilute antibody solutions unless they are prepared in specially formulated multi use antibody dilution buffer (Cat # DiluOBuffer). Working solutions of antibodies in DiluOBuffer should be filtered through 0.45µ filter after every use for long-term storage.

References:

1. Kauraniemi P, Kuukasjarvi T, Sauter G, Kallioniemi A. Amplification of a 280-kilobase core region at the ERBB2 locus leads to activation of two hypothetical proteins in breast cancer. *Am J Pathol.* 2003 Nov;163(5):1979-84.
2. Katoh M, Katoh M. Identification and characterization of mouse Erbb2 gene in silico. *Int J Oncol.* 2003 Sep;23(3):831-5.
3. Katoh M, Katoh M. MGC9753 gene, located within PPP1R1B-STAR3D3-ERBB2-GRB7 amplicon on human chromosome 17q12, encodes the seven-transmembrane receptor with extracellular six-cystein domain. *Int J Oncol.* 2003 Jun;22(6):1369-74.

Note: Briefly centrifuge antibodies to collect liquid at the bottom. Aliquot in working volumes before long-term storing at -20°C. Repeated freeze/thaw may result in appearance of higher molecular weight immunoreactive bands.

* For users who may require large amounts of MGC9753-101AP, MGC9753-112AP, MGC9753-121AP and MGC9753-131AP, please enquire about bulk material discounts.
This Product is for Research Use Only and is NOT intended for use in humans or clinical diagnosis. A070903-0020SF1002Z-rev10.00

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