



FabGennix Inc.
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New Item
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Customer Service: 1-800 786 1236
Technical Service: 318 219 1123
Fax: 318 798 1849
Info@fabgennix.com
www.fabgennix.com

Antibodies Mammalian Gene Clone 13057

Anti-MGC13057 antibodies; Cat # MGC13057-101AP; MGC13057-112AP; MGC13057-121AP.

The National Institutes of Health Mammalian Gene Collection (MGC) Program is a multiinstitutional effort to identify and sequence a cDNA clone containing a complete ORF for each human and mouse gene. ESTs were generated from libraries enriched for full-length cDNAs and analyzed to identify candidate full-ORF clones, which then were sequenced to high accuracy. The MGC has currently sequenced and verified the full ORF for a nonredundant set of >9,000 human and >6,000 mouse genes. Candidate full-ORF clones for an additional 7,800 human and 3,500 mouse genes also have been identified. All MGC sequences and clones are available without restriction through public databases and clone distribution networks (1).

Certain loci on human chromosome 17q12 are frequently amplified in various types of cancers. One of such loci is PP1R1B-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 MGC13057 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 3 uncharacterized hypothetical proteins, MGC13057, MGC9753 and MGC14832 in breast carcinoma and human gastric cancer samples (1, 2).

The MGC13057 is a 95 amino acid uncharacterized protein. The MGC-13057-selective antibodies were generated in rabbits against unique N, mid-region and C-terminal peptides that are unique to MGC13057 protein. FabGennix Inc. has generated specific rabbit anti-MGC13057 polyclonal (mono-epitope-specific) antibodies utilizing linear or cyclic peptide sequences. These antibodies have been characterized for cross-reactivity with other members of the amplicon related proteins. FabGennix Inc. has produced antibodies to multiple epitopes on the same protein that will facilitate studies utilizing epitope analyses and other functional and interspecies cross reactivity. *FabGennix Inc.* also provides limited quantities of antigenic blocking peptides for MGC13057 antibodies.

Catalog #	Host	Description	Antigen/Positive control	Cross reactivity	Price
MGC13057-101AP	Rabbit	Affinity purified MGC13057 Antibody	Near N-terminal peptide	H*	\$235
MGC13057-112AP	Rabbit	Affinity purified MGC13057 Antibody	Mid-region peptide	H*	\$235
MGC13057-121AP	Rabbit	Affinity purified MGC13057 Antibody	Near C-terminal peptide	H*	\$235
P-MGC13057-101	n/a	N-terminal antigenic blocking peptide	N-terminal peptide	250 ug	\$85
P-MGC13057-112	n/a	Mid-region antigenic blocking peptide	Mid-region peptide peptide	250 ug	\$85
P-MGC13057-121	n/a	C-terminal antigenic blocking peptide	C-terminal peptide	250 ug	\$85

R = rat; M = mouse; H = humans; R = rabbit * Actual volume is 150-200 µl; WB, 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: MGC13057-101AP: cmkskqt f p f p t i y e g e k q h e; for MGC13057-112AP: c l p r m a s p v n v k e e v k e p p g t n; MGC13057-121AP: c d a l q q w a c n n i k y h d i p.

Concentration: MGC13057-101AP; MGC13057-112AP; and MGC13057-121AP 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 (WB; IMM and IHC) 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. Strausberg RL, Feingold EA, et. al., Proc Natl Acad Sci U S A. 2002 Dec 24;99(26):16899-903. Epub 2002 Dec 11.
2. Kauraniemi P, Kuukasjarvi T, Sauter G, Kallioniemi A. Am J Pathol. 2003 Nov;163(5):1979-84.
3. Katoh M, Katoh M. Identification and characterization of mouse Erbb2 gene in silico. Int J Oncol. 2003 Sep;23(3):831-5.
4. 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-cysteine 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 MGC13057-101AP, MGC13057-112AP, MGC13057-121AP, please enquire about bulk material discounts.

This Product is for Research Use Only and is NOT intended for use in humans or clinical diagnosis.

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5850 Town & Country Blvd. Suite 301, Frisco, TX 75034