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INTERNATIONAL

New Item
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Customer Service: 1-800 786 1236
Technical Service: 214 387 8105
Fax: 214 387 0870
Info@fabgennix.com
www.fabgennix.com

Chromosome 13 Open Reading Frame 37 antibodies

Anti-Chromosome 17 ORF37 antibodies. Cat # C17Orf37-101AP.

Alternate Nomenclature: HBV X-transactivated gene 4 protein; XTP4; protein C37

“The National Institutes of Health Mammalian Gene Collection (MGC) Program is a multi-institutional 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 non-redundant 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” see <http://mgc.nci.nih.gov>. (1).

The Chromosome 17 open reading frame 137 gene is associated with prostate cancer and functionally associated with redox related processes in cytoplasm, it belongs to the SelWTH family of proteins. The C17Orf137 is trans activated by hepatitis B virus A antigen (HBVX-transactivated). The C17Orf137 is absently expressed in breast cancer cells.

Several C3Orf34 like proteins have been analyzed and identified including HSD5. The C3Orf34 have several splice variant sites that result expression of this protein in multiple variants. The protein has several functional domains including multiple phosphoenolpyruvate carboxylase (ppc) domain in the middle of the protein. Similar to C3Orf34 a HSD5 gene (C3Orf34 like) was identified in chimpanzee with 4 extra amino acids at the N-terminal end of the protein. Recently its noted that C3Orf34 is differentially expressed in cancer cells. C3Orf34 is a 163 amino acid long protein with an apparent molecular weight of 20-22kDa in size.

FabGennix Int. Inc., has generated specific antibodies to C3Orf34 in rabbits. The C3Orf34-selective antibodies were generated against peptide selected from near the C-terminal end of the protein. The peptide has no sequence homology to other proteins in the gene bank. FabGennix Inc. has generated epitope specific rabbit anti-C3Orf34 epitope-specific polyclonal antibodies utilizing linear and cyclic peptide sequences. These antibodies have been fully characterized for their activity on western blot analyses. FabGennix will conjugate C3Orf34 affinity purified antibodies to fluorescent probes at nominal cost for direct visualization of antibody on Western, IHC, and confocal type of applications. Limited quantities of the antigenic blocking peptide for C3Orf34 is also available for blocking and antibody depletion assays. Please inquire before ordering.

Catalog #	Host	Description	Antigen/ control	Reactivity	Qty/vol
C17Orf137-101AP	Rabbit	Chromosome 3 Open reading frame 34 Ab	Peptide antibody	H	100ug
P-C3Orf34	n/a	Antigenic blocking peptide for Chr3Orf34-101AP	Peptide antibody	R, M, H	250ug
*PC-C3orf34	n/a	Western blot positive control for hNMP	Partially purified Chr3Orf34	N/A	5 Appl

R = rat; M = mouse; H = humans; R = rabbit * Actual volume is 103-110 µl; WB, Western Blot analyses; IMM, Immunoprecipitation; IHC, Immunohistochemistry, n.d, not determine.

Immunogen: Synthetic peptide corresponding to amino acid 133-153 (dpn fvy die vef pqd dql qsc) from human C3Orf34 protein sequence. The peptide was covalently modified post synthesis to achieve desired antigenicity before coupling to keyhole limpet hemocyanin (KLH) using heterobifunctional cross linker for immunogenization.

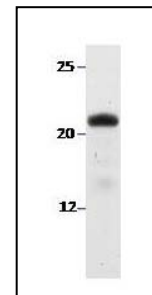
Concentration: C3Orf34-101AP concentration range form 0.65-0.83mg per ml of antibody stabilization buffer, the concentration range depicted the existing purified antibody lot concentrations.

Applications: ELISA: Antibody dilution 1:2,000 for ELISA or DOT blot assay. W.B: Antibody dilution 1:500-1,000 for WB using PC-C3Orf34 sample. IMM: n.d; IHC n.d

Reactivity The antibodies C3Orf34-101AP label 21kDa C3Orf34 protiin in PC-C3Orf34 samples and in other malignant cell lines. .

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 with preservatives. 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 0.45µm filter after every use for long-term storage.



Western blot of C3Orf34-101AP with PC-C3Orf34 sample. Antibody dilution 1:750 in diluOBuffer (Cat #: FGI-1963). MWM are indicated on the left.

***Note:** Briefly centrifuge to collect liquid, heat or boil PC-hNMP-101AP tube for 1-2 minutes to dissolve any precipitate before use. This product is “ready-to-use” for electrophoresis. After thawing store at room temperature, Repeated freezing and thawing may result in appearance of higher molecular weight immunoreactive bands.

Now Western blots can be stripped and recycle using our specially formulated StripOBuffer (Cat # FGI-1989). This stripping buffer does not require heating or have any pungent smell. You can recycle blots up to 8 times with out significant loss in signal to noise ratios.

References:

1. Proc Natl Acad Sci U S A. 2002 Dec 24;99(26):16899-903. Epub 2002

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5850 Town and Country Blvd. Suite 301. Frisco, TX 75034
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* For users who may require large amounts of Chr3Orf34-101AP or P-Chr3Orf34, 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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2940 Youree Drive, Suite E, Shreveport, LA 71104