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# Datasheet

## FLNA monoclonal antibody (M01), clone 4E10-1B2

**Catalog Number:** H00002316-M01

**Regulatory Status:** For research use only (RUO)

**Product Description:** Mouse monoclonal antibody raised against a full length recombinant FLNA.

**Clone Name:** 4E10-1B2

**Immunogen:** FLNA (AAH14654, 1 a.a. ~ 838 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

**Sequence:**
MPSGKVAQPTITDNKDGTVTVRYAPSEAGLHEMDIRY
DNMHIPGSPLQFYVDYVNCGHVTAYGPGLTHGVVNK
PATFTVNTKDAGEGGLSLAIEGPSKAEISCTDNQDGTC
SVSYLPVLPGDYSILVKYNEQHVPGSPFTARVTGDDS
MRMSHLKVGSAADIPINISETDLSLLTATVVPPSGREEP
CLLKRLRNGHVGISFVPKETGEHLVHVKKNGQHVASS
PIPVVISQSEIGDASRVRVSGQGLHEGHTFEPAEFIIDT
RDAGYGGLSLSIEGPSKVDINTEDLEDGTCRVTYCPTE
PGNYIINIKFADQHVPGSPFSVKVTGEGRVKESITRRR
RAPSVANVGSHCDLSLKIPEISIQDMTAQVTSPSGKTH
EAEIVEGENHTYCIRFVPAEMGTHTVSVKYKGQHVPG
SPFQFTVGPLGEGGAHKVRAGGPGLERAEAGVPAEF
SIWTREAGAGGLAIAVEGPSKAEISFEDRKDGSCGVAY
VVQEPGDYEVSVKFNEEHIPDSPFVVPVASPSGDARR
LTVSSLQESGLKVNQPASFAVSLNGAKGAIDAKVHSPS
GALEECYVTEIDQDKYAVRFIPRENGVYLIDVKFNGTHI
PGSPFKIRVGEPGHGGDPGLVSAYGAGLEGGVTGNP
AEFVVNTSNAGAGALSVTIDGPSKVKMDCQECPEGYR
VTYTPMAPGSYLISIKYGGPYHIGGSPFKAKVTGPRLV
SNHSLHETSSVFVDSLTKATCAPQHGAPGPGPADASK
VVAKGLGLSKAYVGQKSSFTVDCSKAGNNMLLVGVH
GPRTPCEEILVKHVGSRLYSVSYLLKDKGEYTLVVKW
GDEHIPGSPYRVVVP

**Host:** Mouse

**Reactivity:** Human

**Applications:** ELISA, IHC-P, PLA-Ce, S-ELISA, WB-Ce, WB-Re
(See our web site product page for detailed applications information)

**Protocols:** See our web site at http://www.abnova.com/support/protocols.asp or product page for detailed protocols

**Isotype:** IgG1 kappa

**Storage Buffer:** In 1x PBS, pH 7.4

**Storage Instruction:** Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

**Entrez GeneID:** 2316

**Gene Symbol:** FLNA

**Gene Alias:** ABP-280, ABPX, DKFZp434P031, FLN, FLN1, FMD, MNS, NHBP, OPD, OPD1, OPD2

**Gene Summary:** The protein encoded by this gene is an actin-binding protein that crosslinks actin filaments and links actin filaments to membrane glycoproteins. The encoded protein is involved in remodeling the cytoskeleton to effect changes in cell shape and migration. This protein interacts with integrins, transmembrane receptor complexes, and second messengers. Defects in this gene are a cause of several syndromes, including periventricular nodular heterotopias (PVNH1, PVNH4), otopalatodigital syndromes (OPD1, OPD2), frontometaphyseal dysplasia (FMD), Melnick-Needles syndrome (MNS), and X-linked congenital idiopathic intestinal pseudoobstruction (CIIPX). Two transcript variants encoding different isoforms have been found for this gene]

**References:**

1. Familial periventricular nodular heterotopia, epilepsy and Melnick-Needles Syndrome caused by a single FLNA mutation with combined gain-of-function and loss-of-function effects. Parrini E, Mei D, Pisanti MA, Catarzi S, Pucatti D, Bianchini C, Mascalchi M, Bertini E, Morrone A, Cavaliere ML, Guerrini R J Med Genet. 2015 Mar 9. pii: jmedgenet-2014-102959. doi: 10.1136/jmedgenet-2014-102959.
2. Fibrinogen-Like Protein 2/Fibroleukin Induces Long-Term Allograft Survival in a Rat Model through Regulatory B Cells. Bezie S, Picarda E, Tesson L, Renaudin K, Durand J, Menoret S, Merieau E, Chiffoleau E, Guillonneau C, Caron L, Anegon I PLoS One. 2015 Mar 12;10(3):e0119686. doi:

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10.1371/journal.pone.0119686. eCollection 2015.

3. Familial periventricular nodular heterotopia, epilepsy and Melnick-Needles Syndrome caused by a single FLNA mutation with combined gain-of-function and loss-of-function effects. Parrini E, Mei D, Pisanti MA, Catarzi S, Pucatti D, Bianchini C, Mascalchi M, Bertini E, Morrone A, Cavaliere ML, Guerrini R. J Med Genet. 2015 Jun;52(6):405-12.