

## Datasheet

### MUSK monoclonal antibody (M03), clone 4C12

**Catalog Number:** H00004593-M03

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

**Product Description:** Mouse monoclonal antibody raised against a partial recombinant MUSK.

**Clone Name:** 4C12

**Immunogen:** MUSK (NP\_005583, 301 a.a. ~ 400 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

**Sequence:**

ISIAEWSKPQKDNKG YCAQYRGEVCNAVLA KDALVFL  
NTSYADPEEAQELLVHTAWNELKVVSPVCRPAEALL  
CNHIFQECSPGVVPTPIPICREYCLA

**Host:** Mouse

**Reactivity:** Human

**Applications:** ELISA, 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:** IgG2a 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:** 4593

**Gene Symbol:** MUSK

**Gene Alias:** MGC126323, MGC126324

**Gene Summary:** Intercellular communication is often mediated by receptors on the surface of one cell that recognize and are activated by specific protein ligands released by other cells. Members of one class of cell

surface receptors, receptor tyrosine kinases (RTKs), are characterized by having a cytoplasmic domain containing intrinsic tyrosine kinase activity. This kinase activity is regulated by the binding of a cognate ligand to the extracellular portion of the receptor. DeChiara et al. (1996) [PubMed 8653786] noted that the RTKs, known to be expressed in cell type-specific fashions, play a role critical for the growth and differentiation of those cell types. For example, members of the neural-specific TRK family that recognize nerve growth factor are absolutely required for the survival and development of discrete neuronal subpopulations, and the receptor tyrosine kinases TIE1 (MIM 600222) and TIE2 (MIM 600221) play a critical role in the development of normal blood vessels.[supplied by OMIM]