

## Monoclonal Antibody to Muscleblind Proteins

<b>Alternate names:</b>	EXP35, EXP40, MBNL, MBNL1
<b>Catalog No.:</b>	AM12083PU-N
<b>Quantity:</b>	0.1 ml
<b>Background:</b>	Muscleblind was originally isolated following studies of <i>Drosophila</i> , since inactivation of the muscleblind ( <i>mb</i> ) gene in this species resulted in defects in the development of muscles and the visual system. The <i>Drosophila</i> muscleblind protein contains 4 zinc finger nucleic acid binding motifs. These binding domains are about 26 amino-acids long, coordinate one zinc ion and bind RNA. Human homologues of the single <i>Drosophila</i> muscleblind gene were discovered from cDNA and genomic sequencing, but were also discovered as a result of experiments aimed at finding proteins which bind to polynucleotide repeated sequences. Several important human diseases are associated with expansion of polynucleotide sequences, in most cases trinucleotide repeats. Myotonic dystrophy (DM1) is one of these diseases, and is associated with increases in the number of CTG repeats in the 3' UTR of the gene encoding myotonin (a.k.a. DM Kinase, DMK or myotonin-Protein Kinase), a ser/thr kinase expressed specifically in muscle.
<b>Host / Isotype:</b>	Mouse / IgG
<b>Clone:</b>	MBNL
<b>Immunogen:</b>	Full-length recombinant human MBNL expressed in E
<b>Format:</b>	<b>State:</b> Liquid Ig fraction <b>Buffer System:</b> 50% glycerol, 0.01% sodium azide
<b>Applications:</b>	Immunocytochemistry / Immunofluorescence (1/50 - 1/2,000). Western blot (1/500 - 1/2,000). Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
<b>Specificity:</b>	This antibody detects Muscleblind Proteins.
<b>Species Reactivity:</b>	<b>Tested:</b> Mammalia
<b>Storage:</b>	Store (in aliquots) at -20 °C. Avoid repeated freezing and thawing. Shelf life: one year from despatch.
<b>General Readings:</b>	1. Begemann G. et al. <i>Development</i> 124:4321-4331 (1997).