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Product datasheet for TA301501

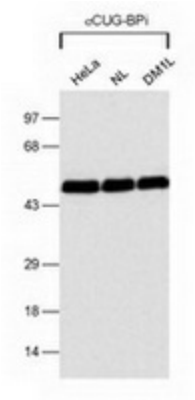
CUG BP1 (CELF1) Mouse Monoclonal Antibody [Clone ID: 3B1]

Product data:

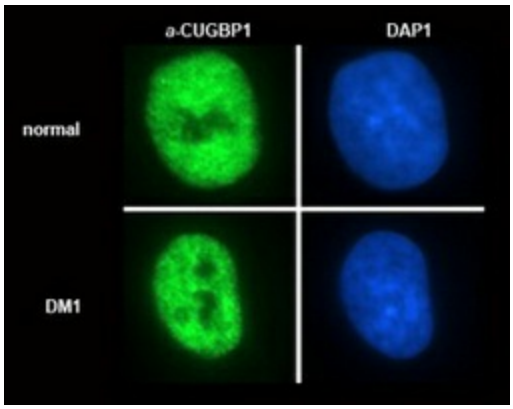
Product Type:	Primary Antibodies
Clone Name:	3B1
Applications:	IF, WB
Recommend Dilution:	WB: 1:500
Reactivity:	Bovine, Human, Mouse, Porcine, Rabbit, Rat
Host:	Mouse
Isotype:	IgG1, kappa
Clonality:	Monoclonal
Immunogen:	CUG-BP1 human nuclear RNA binding protein.
Formulation:	Ascitic fluid and 0.1% sodium azide
Concentration:	8.3 mg/ml
Purification:	Ascites
Gene Name:	CUGBP, Elav-like family member 1
Database Link:	NP_006551 Entrez Gene 13046 MouseEntrez Gene 362160 RatEntrez Gene 10658 Human
Background:	Myotonic dystrophy (MD) is an autosomal dominant neuromuscular disease that is associated with a (CTG)n repeat expansion in the 3-untranslated region of the myotonin protein kinase (Mt-PK) gene. A (CUG) n oligonucleotides triplet repeat pre-mRNA/mRNA binding protein may play an important role in DM pathogenesis. HeLa cell protein, CUG-BP1, has been purified based upon its ability to bind specifically to (CUG) 8 oligonucleotides in vitro. CUG-BP1 is the major (CUG) 8 - binding activity in normal cells. CUG-BP1 has been identified as isoforms of a novel heterogeneous nuclear ribonucleoprotein (hnRNP), hNab50. The CUG-BP/hNab50 protein is localized predominantly in the nucleus and is associated with polyadenylated RNAs in vivo. In vitro RNA-binding/photocrosslinking studies demonstrate that CUG-BP/hNab50 binds to RNAs containing the Mt-PK 3-UTR. The (CUG) n repeat region in Mt-PK mRNA is a binding site for CUG-BP/hNab50 in vivo, and triplet repeat expansion leads to sequestration of this hnRNP on mutant Mt-PK transcripts.
Synonyms:	BRUNOL2; CUG-BP; CUGBP; CUGBP1; EDEN-BP; hNab50; NAB50; NAPOR
Protein Families:	Druggable Genome

View online »

Product images:



Detection of CUG-BP1 in several cell lysates



Detection of the subcellular distribution of CUGBP1 (nuclear, non-nucleolar) in normal and DM1 (dystrophia myotonica) myoblasts