

# Product datasheet for AP06642PU-M

## **MSC Rabbit Polyclonal Antibody**

### **Product data:**

#### OriGene Technologies, Inc.

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Product Type:	Primary Antibodies
21	-
Applications:	IHC, WB
Recommended Dilution:	
	Immunohistochemistry on paraffin sections 1/50-1/200.
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Synthetic peptide, corresponding to amino acids 141-190 of Human Musculin.
Specificity:	This antibody detects endogenous levels of Musculin protein. (region surrounding Arg167)
Formulation:	Phosphate buffered saline (PBS), pH 7.2. State: Aff - Purified State: Liquid purified Ig fraction Preservative: 0.05% sodium azide
Concentration:	1.0 mg/ml
Purification:	Affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS- PAGE)
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	~ 22 kDa
Gene Name:	musculin
Database Link:	<u>Entrez Gene 9242 Human</u> <u>O60682</u>



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#### **GRIGENE** MSC Rabbit Polyclonal Antibody – AP06642PU-M

Background:Differentiation of myogenic cells is regulated by multiple positively and negatively acting<br/>factors. One well characterized family of helix-loop-helix (HLH) proteins, known to play an<br/>important role in the regulation of muscle cell development, includes MyoD, myogenin and<br/>musculin (also designated MyoR). Members of this group of transcription factors form<br/>heterodimers with products of a more widely expressed family of bHLH genes, the E family,<br/>which consists of at least three distinct genes: E2A, IF2 and HEB. MyoD-E or musculin-E<br/>heterodimers bind avidly to consensus E box motifs, which are functionally important<br/>elements in the promoter regions of many musclespecific terminal differentiation genes.<br/>MyoD complexes potently induce transcriptional activation, while musculin complexes bind<br/>adjacent to MyoD DNA-binding regions to represses MyoD activity, which then results in the<br/>delayed expression of muscle-specific genes. Musculin is highly expressed in undifferentiated<br/>and proliferating myoblasts in culture, and its expression is down regulated during<br/>myogenesis and at the onset of terminal differentiation.

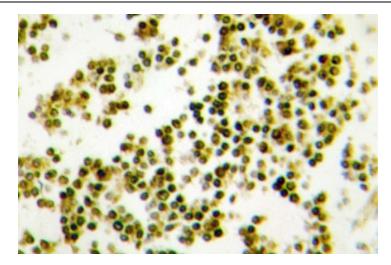
Synonyms: MSC, ABF1, ABF-1, Activated B-cell factor 1

#### **Product images:**



Western blot (WB) analysis of Musculin antibody in extracts from Jurkat cells.

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Immunohistochemistry (IHC) analyzes of Musculin antibody in paraffin-embedded human lymph node tissue.

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