

## Product datasheet for **AM20694PU-N**

### alpha Actinin (ACTN1) Mouse Monoclonal Antibody [Clone ID: SA-20]

#### Product data:

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|------------------------|--|
| Product Type:          | Primary Antibodies   |
| Clone Name:            | SA-20  |
| Applications:          | IF, IHC, IP, WB  |
| Recommended Dilution:  | Western Blot: 0.25-0.5 µg/ml.<br>Immunohistochemistry on paraffin* sections: 0.5 - 1.0 µg/ml (*Boiling the sections is required).<br>Immunohistochemistry on Frozen 1.0 - 2.0 µg/ml      |
| Reactivity:            | Human, Mouse, Rabbit, Rat  |
| Host:                  | Mouse  |
| Isotype:               | IgG1   |
| Clonality:             | Monoclonal   |
| Immunogen:             | Rabbit skeletal alpha-actinin  |
| Specificity:           | This antibody reacts to Alpha-actinin-1.   |
| Formulation:           | 1.2 % sodium acetate, with 2 mg BSA and 0.01 mg sodium azide as preservative<br>State: Purified<br>State: Lyophilized purified Ig fraction   |
| Reconstitution Method: | Restore with 1.2% sodium acetate or neutral PBS  |
| Concentration:         | 0,1 mg/ml (after reconstitution with PBS)  |
| Purification:          | Affinity chromatography  |
| Conjugation:           | Unconjugated   |
| Storage:               | Prior to reconstitution store at -20°C.<br>Following reconstitution store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.<br>Avoid repeated freezing and thawing. |
| Stability:             | Shelf life: one year from despatch.  |
| Gene Name:             | actinin alpha 1  |
| Database Link:         | <a href="#">Entrez Gene 81634 Rat</a> <a href="#">Entrez Gene 109711 Mouse</a> <a href="#">Entrez Gene 87 Human P12814</a>   |



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| <b>Background:</b>       | Alpha-actinin was initially isolated from rabbit skeletal muscle as a factor that induces the gelation of F-actin and promotes the superprecipitation of actomyosin. Alpha actinins are actin-binding proteins that carry out different purposes in different different cell types. In myofibrillar cells, alpha-actinin constitutes a major component of Z-discs in striated muscle and of the functionally analogous dense bodies and dense plaques in smooth muscle. alpha-actinin (alpha A) shares structural homology with spectrin and dystrophin. |
| <b>Synonyms:</b>         | Alpha actinin cytoskeletal isoform, Non-muscle alpha-actinin 1   |
| <b>Protein Families:</b> | Druggable Genome, ES Cell Differentiation/IPS  |
| <b>Protein Pathways:</b> | Adherens junction, Arrhythmogenic right ventricular cardiomyopathy (ARVC), Focal adhesion, Leukocyte transendothelial migration, Regulation of actin cytoskeleton, Systemic lupus erythematosus, Tight junction  |