



Mouse Anti-Human Actin (Muscle Specific) monoclonal antibody, clone JID616 (CABT-L2799)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

| Product Overview | This antibody is intended for qualified laboratories to qualitatively identify by light microscopy the presence of associated antigens in sections of formalin-fixed, paraffin-embedded tissue sections using IHC test methods. |
|--------------------|--|
| Specificity | Human Actin, Muscle Specific |
| Isotype | IgG |
| Source/Host | Mouse |
| Species Reactivity | Human |
| Clone | JID616 |
| Conjugate | Unconjugated |
| Applications | IHC |
| Reconstitution | The prediluted antibody does not require any mixing, dilution, reconstitution, or titration; the antibody is ready-to-use and optimized for staining. The concentrated antibody requires dilution in the optimized buffer, to the recommended working dilution range. |
| Positive Control | Skeletal Muscle |
| Format | Liquid |
| Size | Predilut: 7 ml, Concentrate: 100 μl, Concentrate: 1 ml |

45-1 Ramsey Road, Shirley, NY 11967, USA

Email: info@creative-diagnostics.com

Tel: 1-631-624-4882 Fax: 1-631-938-8221

| Buffer | Predilute: Antibody Diluent Buffer Concentrate: Tris Buffer, pH 7.3 - 7.7, with 1% BSA |
|--------------|---|
| Preservative | < 0.1% Sodium Azide |
| Storage | Store at 2-8°C. Do not freeze. |
| Ship | Wet ice |

BACKGROUND

| Introduction | Actin is part of the cytoskeletal system of every cell type. It can be classified based on isoelectric points as alpha, beta, and gamma. Muscle Specific Actin includes those of the alpha and gamma isotypes. Skeletal, smooth, and cardiac muscle cells will all stain positively with Anti-Muscle specific actin, but mesenchymal cells, not including myoepithelium, will stain negatively. Normal and neoplastic non-muscle cells, including vascular endothelial and connective tissues, carcinomas, melanomas, and lymphomas, will also be negative for Muscle specific actin. The use of Anti-muscle specific actin in concert with Anti-smooth muscle actin can allow for differentiation between rhabdomyosarcoma and leiomyosarcoma, as Muscle specific actin is found in rhabdomyoblasts, while smooth muscle actin is found in leiomyosarcomas. |
|--------------|--|
| Keywords | ACTN4; actinin, alpha 4; focal segmental glomerulosclerosis 1, FSGS1; alpha-actinin-4; actinin alpha4 isoform; non-muscle alpha-actinin 4; F-actin cross-linking protein; focal segmental glomerulosclerosis 1; FSGS; FSGS1; ACTININ-4; DKFZp686K23158; |

GENE INFORMATION

| Gene Name | ACTG2 actin, gamma 2, smooth muscle, enteric [Homo sapiens (human)] |
|---------------------|---|
| Official Symbol | ACTG2 |
| Synonyms | ACTG2; actin, gamma 2, smooth muscle, enteric; ACT; ACTE; VSCM; ACTA3; ACTL3; ACTSG; actin, gamma-enteric smooth muscle; alpha-actin-3; actin-like protein; |
| Entrez Gene ID | 72 |
| Protein Refseq | NP_001186822 |
| UniProt ID | <u>P63267</u> |
| Chromosome Location | 2p13.1 |
| Pathway | Muscle contraction; Smooth Muscle Contraction; Vascular smooth muscle contraction; |

45-1 Ramsey Road, Shirley, NY 11967, USA

Email: info@creative-diagnostics.com

Tel: 1-631-624-4882 Fax: 1-631-938-8221