

ACTR3 Antibody

Catalog No: #32140

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Description

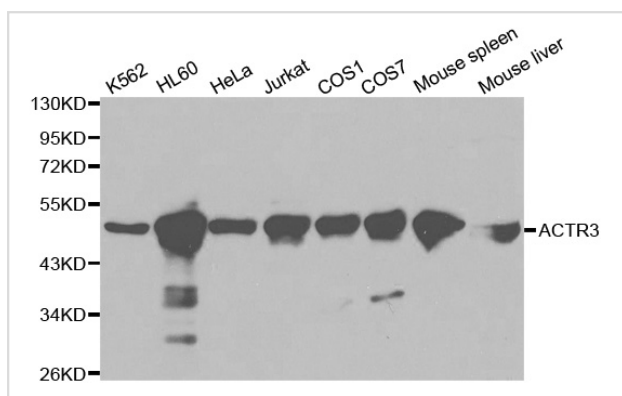
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| Product Name | ACTR3 Antibody |
| Host Species | Rabbit |
| Clonality | Polyclonal |
| Purification | Antibodies were purified by affinity purification using immunogen. |
| Applications | WB IHC |
| Species Reactivity | Hu Ms Rt |
| Specificity | The antibody detects endogenous level of total ACTR3 protein. |
| Immunogen Type | Recombinant Protein |
| Immunogen Description | Recombinant protein of human ACTR3. |
| Target Name | ACTR3 |
| Other Names | ACTR3; ARP3; |
| Accession No. | Swiss-Prot:P61158NCBI Gene ID:10096 |
| SDS-PAGE MW | 47KD |
| Concentration | 1.0mg/ml |
| Formulation | Supplied at 1.0mg/mL in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. |
| Storage | Store at -20°C |

Application Details

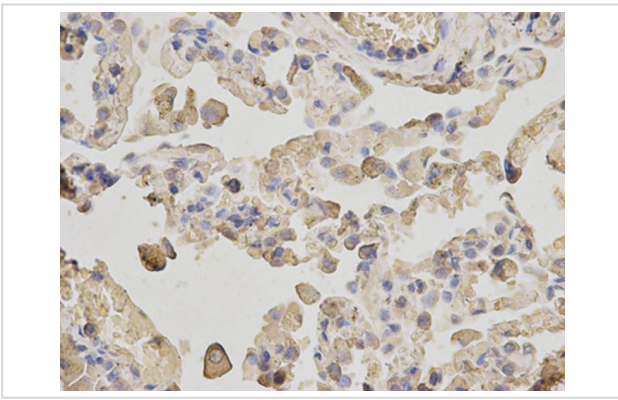
Western blotting: 1:500 - 1:2000

Immunohistochemistry: 1:50 - 1:100

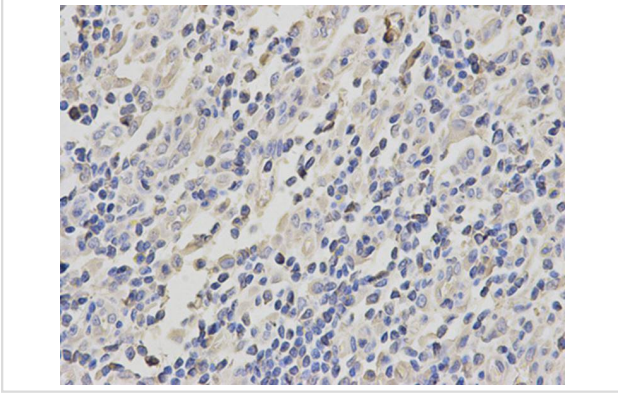
Images



Western blot analysis of extracts of various cell lines, using ACTR3 antibody.



Immunohistochemical analysis of paraffin-embedded human lung using ACTR3 antibody at dilution of 1:200 (400x lens).



Immunohistochemical analysis of paraffin-embedded human stomach cancer using ACTR3 antibody at dilution of 1:200 (400x lens).

Background

Actin nucleation, the formation of new actin filaments from existing filaments, affects actin filament structure during cell motility, division, and intracellular trafficking. An important actin nucleation protein complex is the highly conserved ARP2/3 complex, consisting of ARP2, ARP3, and ARPC1-5. The ARP2/3 complex promotes branching of an existing actin filament and formation of a daughter filament following activation by nucleation-promoting factors, such as WASP/WAVE or cortactin (1). The formation of podosomes, small cellular projections that degrade the extracellular matrix, is enhanced by ARP2/3 complex action. ARP2/3 competes with caldesmon, an actin binding protein shown to negatively affect podosome formation (2). Along with N-WASP, the ARP2/3 complex regulates nuclear actin filament nucleation and controls actin polymerization during transcription (3).

Note: This product is for in vitro research use only and is not intended for use in humans or animals.