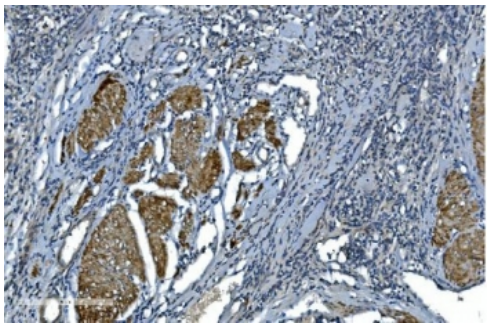
# ACTA1 Antibody [clone 3H5] (RQ6228)

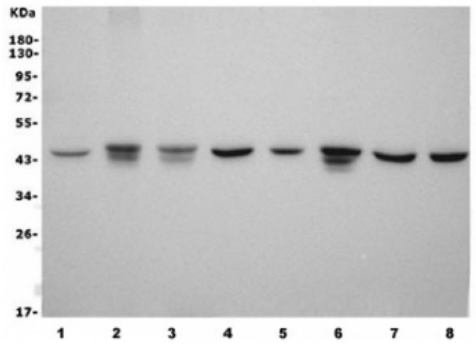
| Catalog No. | Formulation | Size |
|---|---|---|
| RQ6228 | 0.5mg/ml if reconstituted with 0.2ml sterile DI water | 100 ug |

**Bulk quote request**

| | |
|---|---|
| **Availability** | 1-3 business days |
| **Species Reactivity** | Human, Mouse, Rat |
| **Format** | Antigen affinity purified |
| **Clonality** | Monoclonal (mouse origin) |
| **Isotype** | Mouse IgG1 |
| **Clone Name** | 3H5 |
| **Purity** | Affinity purified |
| **Buffer** | Lyophilized from 1X PBS with 2% Trehalose |
| **UniProt** | P68133 |
| **Applications** | Western blot : 1-2ug/ml<br>Immunohistochemistry (FFPE) : 2-5ug/ml |
| **Limitations** | This ACTA1 antibody is available for research use only. |



IHC staining of FFPE human bladder cancer with ACTA1 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.




Western blot testing of human 1) HepG2, 2) SK-O-V3, 3) PANC-1, 4) HeLa, 5) A549, 6) rat PC-12, 7) mouse NIH 3T3 and 8) mouse HEPA1-6 cell lysate with ACTA1 antibody. Predicted molecular weight ~43 kDa.

## Description

Actin, a highly conserved protein, is a major component of both the cytoskeletal and contractile structures in the cell types. It varies in amount, being related to the type of differentiation and to the functional state of cells and tissues. The actins exhibit over 90% sequence homology, but each isoform has a unique NH2-terminal sequence. The isoforms are comprised of three alpha-actin, one beta-actin, two gamma-actin. Because the amino acid sequence of the C-terminal is the same for almost all actins, this antibody has been raised using a synthetic peptide corresponding to the C-terminal 11 residues.

## Application Notes

Optimal dilution of the ACTA1 antibody should be determined by the researcher.

## Immunogen

Amino acids HETTYNSIMKCDIDIRKDLYANNVMSGGTTMY from the human protein were used as the immunogen for the ACTA1 antibody.

## Storage

After reconstitution, the ACTA1 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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