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# Anti-Beta-actin Antibody-HRP labled

Catalog # AP61571

## Product Information

| | |
|---|---|
| **Application** | WB |
| **Primary Accession** | P60709 |
| **Reactivity** | Human, Mouse, Rat, Rabbit, Zebrafish, Pig, Chicken, Mk |
| **Host** | Mouse |
| **Clonality** | Monoclonal |
| **Calculated MW** | 41737 |

## Additional Information

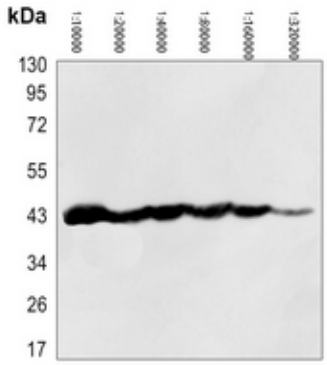
| | |
|---|---|
| **Gene ID** | 60 |
| **Other Names** | Actin cytoplasmic 1; Beta-actin |
| **Target/Specificity** | KLH-conjugated synthetic peptide encompassing a sequence of human Beta-actin-HRP labled. The exact sequence is proprietary. |
| **Dilution** | WB~~WB (1/2000 - 1/5000) |
| **Format** | Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide. |
| **Storage** | Store at -20 °C.Stable for 12 months from date of receipt |

## Protein Information

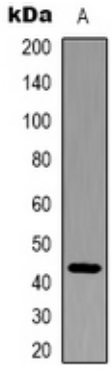
| | |
|---|---|
| **Name** | ACTB |
| **Function** | Actin is a highly conserved protein that polymerizes to produce filaments that form cross-linked networks in the cytoplasm of cells (PubMed:25255767, PubMed:29581253). Actin exists in both monomeric (G-actin) and polymeric (F-actin) forms, both forms playing key functions, such as cell motility and contraction (PubMed:29581253). In addition to their role in the cytoplasmic cytoskeleton, G- and F- actin also localize in the nucleus, and regulate gene transcription and motility and repair of damaged DNA (PubMed:29925947). Plays a role in the assembly of the gamma-tubulin ring complex (gTuRC), which regulates the minus-end nucleation of alpha-beta tubulin heterodimers that grow into microtubule protafilaments (PubMed:39321809, PubMed:38609661). Part of the ACTR1A/ACTB filament around which the dynactin complex is built (By similarity). The dynactin multiprotein complex activates the molecular motor dynein for ultra-processive transport along microtubules (By similarity). |
| **Cellular Location** | Cytoplasm, cytoskeleton. Nucleus Note=Localized in cytoplasmic mRNP |

granules containing untranslated mRNAs.

## Images




Western blot analysis of Beta-actin Antibody-HRP labled expression in HEK293T whole cell lysates using different dilutions from 1:10000 to 1:320000. (Predicted band size: 41 kD; Observed band size: 42 kD)




Western blot analysis of Beta-actin-HRP labled expression in Hela (A) whole cell lysates.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.