For Research Use Only

Beta Actin Polyclonal antibody

Catalog Number: 20536-1-AP

Featured Product

4292 Publications



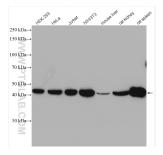
Catalog Number: GenBank Accession Number: **Purification Method: Basic Information** 20536-1-AP BC002409 Antigen affinity purification GenelD (NCBI): Recommended Dilutions: Size: 150ul , Concentration: 600 ug/ml by 60 WB 1:4000-1:10000 Nanodrop: IHC 1:50-1:500 UNIPROT ID: IF/ICC 1:200-1:800 Source P60709 Rabbit Full Name: Isotype actin, beta lgG Calculated MW: Immunogen Catalog Number: 375 aa, 42 kDa AG14521 **Observed MW:** 42 kDa **Tested Applications:** Positive Controls: **Applications** WB, IHC, IF/ICC, ELISA WB: HEK-293 cells, A549 cells, C6 cells, mouse colon **Cited Applications:** tissue, Caco-2 cells, RAW 264.7 cells, SMMC-7721 cells, WB, IHC, IF, IP, CoIP, ELISA HeLa cells, HepG2 cells, Jurkat cells, mouse brain tissue, rat brain tissue, NIH/3T3 cells, mouse liver Species Specificity: tissue, rat kidney tissue, rat spleen tissue, rat liver human, mouse, rat, canine, monkey tissue **Cited Species:** IHC : human colon tissue, human kidney tissue human, mouse, rat, chicken, goat, sheep, yeast, ochotona curzoniae, camelus bactrianus, carp IF/ICC : MDCK cells, Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0 **Background Information** Beta Actin, also named as ACTB and F-Actin, belongs to the actin family. Actins are highly conserved globular proteins that are involved in various types of cell motility and are ubiquitously expressed in all eukaryotic cells. At least six isoforms of actins are known in mammals and other vertebrates: alpha (ACTC1, cardiac muscle 1), alpha 1 (ACTA1, skeletal muscle) and 2 (ACTA2, aortic smooth muscle), beta (ACTB), gamma 1 (ACTG1) and 2 (ACTG2, enteric smooth muscle). Beta and gamma 1 are two non-muscle actin proteins. Most actins consist of 376aa, while ACTG2 (rich in muscles) has 375aa and ACTG1(found in non-muscle cells) has only 374aa. Beta actin has been widely used as the internal control in RT-PCR and Western Blotting as a 42-kDa protein. However, the 37-40, 31, 15 kDa cleaved fragment of beta actin can be generated during apoptosis process. This antibody was generated against N-terminal region of human beta actin protein and can cross-react with other actins. (9173887, 11217076, 10229193) Notable Publications Author Pubmed ID Journal Application Xiao-Feng Zhu 36180975 Phytother Res WB Yu Xu 36247302 Am 1 Transl Res WB Front Physiol WB Ling Guo 34867437 Storage Storage: Store at -20°C. Stable for one year after shipment. Storage Buffer PBS with 0.02% sodium azide and 50% glycerol, pH7.3 Aliquoting is unnecessary for -20°C storage *** 20ul sizes contain 0.1% BSA For technical support and original validation data for this product please contact: This product is exclusively available under Proteintech T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free E: proteintech@ptglab.com

in USA), or 1(312) 455-8498 (outside USA)

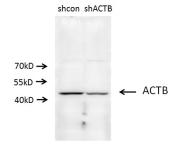
W: ptglab.com

Group brand and is not available to purchase from any other manufacturer.

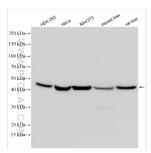
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 20536-1-AP (beta Actin antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



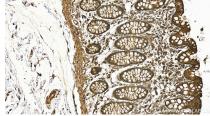
A549 cells (shcontrol and shRNA of Beta actin) were subjected to SDS PAGE followed by western blot with 20536-1-AP (ACTB antibody) at dilution of 1:500.



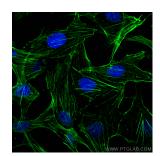
Various lysates were subjected to SDS PAGE followed by western blot with 20536-1-AP (Beta Actin antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffinembedded human normal colon slide using 20536-1-AP (Beta Actin antibody) at dilution of 1:200 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffinembedded human normal colon slide using 20536-1-AP (Beta Actin antibody) at dilution of 1:200 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed MDCK cells using Beta Actin antibody (20536-1-AP) at dilution of 1:400 and Multi-rAb CoraLite ® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002).