Product Information Sheet

Polyclonal Anti- Actin

Catalogue No. PA1324

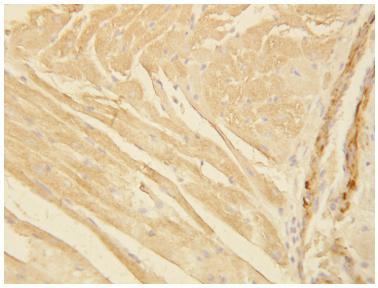
Lot No. 0131012022464

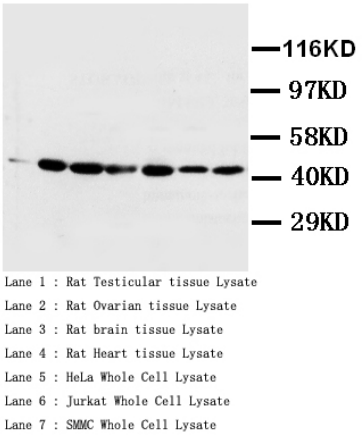
Ig type rabbit IgG

Size 100µg/vial

Specificity
Human, rat.
No cross reactivity with other proteins.

Recommended application
Western blot
Immunohistochemistry (P)





Lane 1 : Rat Testicular tissue Lysate
Lane 2 : Rat Ovarian tissue Lysate
Lane 3 : Rat brain tissue Lysate
Lane 4 : Rat Heart tissue Lysate
Lane 5 : HeLa Whole Cell Lysate
Lane 6 : Jurkat Whole Cell Lysate
Lane 7 : SMMC Whole Cell Lysate

Immunogen
A synthetic peptide corresponding to a sequence at the C-terminal of human Actin (367-377aa), identical to the related rat sequence.

Purity
Immunogen affinity purified.

Application

	Concen-tration	Tested Species	Concluded Species	Antigen Retrieval
WB	1µg/ml	Hu, Rat	Ms	-
IHC-P	2µg/ml	Hu, Rat	Ms	By Heat
IHC-F	-	-	-	-
ICC	-	-	-	-

Other applications have not been tested.
Optimal dilutions should be determined by end user.

Contents
Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na_2HPO_4, 0.05mg Thimerosal, 0.05mg NaN_3.

Reconstitution
0.2ml of distilled water will yield a concentration of 500µg/ml.

Storage
At -20˚C for one year. After reconstitution, at 4˚C for one month. It can also be aliquotted and stored frozen at -20˚C for longer time.

To reorder contact us at:
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BACKGROUND

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.

REFERENCE

1.Gunning,P., Ponte,P., Okayama,H., Engel,J., Blau,H. and Kedes,L.Isolation and characterization of full-length cDNA clones for human alpha-, beta-, and gamma-actin mRNAs: skeletal but not cytoplasmic actins have an amino-terminal cysteine that is subsequently removed.
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2.Goebel,H.H., Brockmann,K., Bonnemann,C.G., Warlo,I.A., Hanefeld,F.,Labeit,S., Durling,H.J. and Laing,N.G.Actin-related myopathy without any missense mutation in the ACTA1 Gene.
J. Child Neurol.2004; 19 (2), 149-153.

3.Laing,N.G., Clarke,N.F., Dye,D.E., Liyanage,K., Walker,K.R.,Kobayashi,Y., Shimakawa,S., Hagiwara,T., Ouvrier,R., Sparrow,J.C., Nishino,I., North,K.N. and Nonaka,I.Actin mutations are one cause of congenital fibre type disproportion.Ann. Neurol.2004; 56 (5), 689-694 .