

Datasheet: AHP1629 BATCH NUMBER 144956

Description:	RABBIT ANTI HUMAN ACTIN BETA (N-TERMINAL)
Specificity:	ACTIN BETA (N-TERMINAL)
Other names:	АСТВ
Format:	Purified
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	0.1 mg

Product Details

Applications	This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit <u>www.bio-rad-antibodies.com/protocols</u> .			tions or personal dicated for further	
		Yes	No	Not Determined	Suggested Dilution
	Immunohistology - Frozen	-			1.0ug/ml
	Western Blotting	-			1.0 - 2.0ug/ml
	Where this product has r necessarily exclude its u a guide only. It is recomr system using appropriate	se in such nended th	n procedu at the use	res. Suggested workin er titrates the product f	g dilutions are given as
Target Species	Human				
Species Cross Reactivity	Reacts with: Mouse, Rat N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.				
Product Form	Purified IgG - liquid				
Antiserum Preparatio	n Antiserum to human Acti rabbits with highly purifie chromatography.		,		ed immunisation of n whole serum by affinity
Buffer Solution	Phosphate buffered salir	ie			

Preservative Stabilisers	0.02% Sodium Azide (NaN ₃)		
Approx. Protein Concentrations	IgG concentration 1.0mg/ml		
Immunogen	A peptide corresponding to an 16 amino acid sequence from near the amino terminus of human Actin beta.		
External Database Links	UniProt: P60709 Related reagents Entrez Gene:		
	<u>60</u> ACTB <u>Related reagents</u>		
RRID	AB_2223350		
Specificity	Rabbit anti Human actin beta antibody recognizes human actin beta (ACTB), one of the cytoplasmic actin isoforms, a 41.7 kDa cytoskeletal protein.		
	Actins are highly conserved proteins that are involved in cell motility, structure and integrity and are ubiquitously expressed in all eukaryotic cells.		
	Higher vertebrates express six actin isoforms encoded for by distinct genes. Actin isoforms are highly evolutionarily conserved. Two striated muscle isoforms, alpha skeletal and alpha cardiac, two smooth muscle isoforms, alpha smooth and gamma smooth together with two cytoplasmic isoforms, beta cytoplasmic and gamma cytoplasmic are encoded by genes on chromosomes 1, 15, 10, 2, 7 and 17 respectively. All actin isoforms have highly homologous nucleotide sequences with the heterogeneity most notably in the N terminal region. However, small differences in primary structure here and elsewhere affect the conformational state of the various isoforms and their affinity for a range of actin binding proteins (ABPs). The range of affinities for ABPs suggests that where multiple globular monomeric (G-actin) forms exist at the same site, polymerisation may result in the formation of filamentous (F-actin) enriched for one particular isoform. Defects in actin beta are a cause of juvenile dystonia, a condition that results in movement disorders due to disordered muscle tonicity, abnormal posture, development malformations and sensory hearing loss.		
Histology Positive Control Tissue	HeLa cells		
Western Blotting	AHP1629 detects a band of approximately 40kDa in HeLa cell lysates.		
References	1. Sun, L. <i>et al.</i> (2014) Quantitative proteomics of <i>Xenopus laevis</i> embryos: expression kinetics of nearly 4000 proteins during early development. <u>Sci Rep. 4: 4365.</u>		
Storage	Store at +4°C or at -20°C if preferred. Storage in frost-free freezers is not recommended.		

	This product should be stored undiluted. Avoid repeated freezin denature the antibody. Should this product contain a precipitate microcentrifugation before use.	• • •
Guarantee	12 months from date of despatch	
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/AHP1629 10040	
Regulatory	For research purposes only	

Related Products

Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR34...)FITCGoat Anti Rabbit IgG (Fc) (STAR121...)Biotin, FITC, HRPSheep Anti Rabbit IgG (STAR35...)RPEGoat Anti Rabbit IgG (H/L) (STAR124...)HRPRecommended Useful Reagents

TidyBlot WESTERN BLOT DETECTION REAGENT:HRP (STAR209P)

North & South Te	el: +1 800 265 7376	Worldwide	Tel: +44 (0)1865 852 700	Europe	Tel: +49 (0) 89 8090 95 21
America Fa	ax: +1 919 878 3751		Fax: +44 (0)1865 852 739		Fax: +49 (0) 89 8090 95 50
Er	mail: antibody_sales_us@bio-rad	.com	Email: antibody_sales_uk@bio-r	ad.com	Email: antibody_sales_de@bio-rad.com

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M363978:200529'

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