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Datasheet for ABIN968903 anti-Actin antibody

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Overview

Quantity:	150 µg
Target:	Actin
Reactivity:	Human, Mouse, Rat, Chicken, Dog
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This Actin antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF)

Product Details

Immunogen:	Chicken gizzard muscle Actin
Clone:	C4-actin
lsotype:	IgG1 kappa
Cross-Reactivity:	Human, Dog (Canine), Rat (Rattus), Mouse (Murine)
Characteristics:	 Since applications vary, each investigator should titrate the reagent to obtain optimal results. Please refer to us for technical protocols. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
Purification:	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

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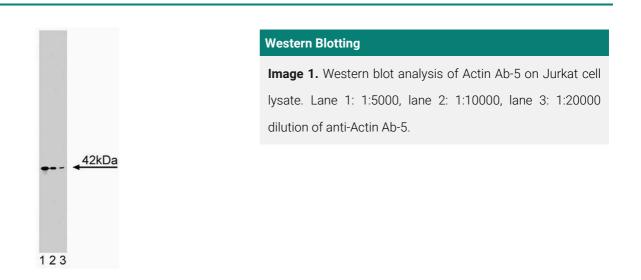
Target Details

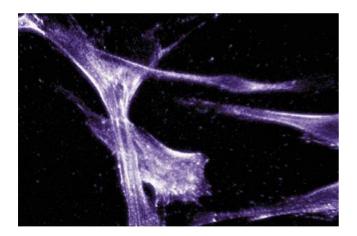
Target:	Actin
Abstract:	Actin Products
Background:	Changes in cellular morphology, adhesion, and motility occur through the reorganization of the
	actin cytoskeleton. This reorganization of actin filaments results from interactions between
	actin and actin-binding proteins. Actin is a 42-kDa protein that is known as G-actin in its
	monomeric form. Polymerization of G-actin monomers leads to the generation of flexible
	filaments, 5-9 nm in diameter, called F-actin. F-actin may be organized in linear bundles called
	stress fibers or in two-dimensional networks. The latter are highly concentrated beneath the
	plasma membrane and form the actin cortex. Regulation of actin cytoskeletal dynamics occur
	through actin-binding proteins. These proteins bind to G- and/or F-actin and regulate various
	aspects of actin cytoskeletal dynamics, such as polymerization and depolymerization of actin,
	cross-linking of actin filaments into bundles, interaction of actin-based structures with
	membranes and other cytoskeletal elements, and locomotion of actin-based structures. Thus,
	the actin cytoskeleton is a complex matrix consisting of G- and F-actin along with the multitud
	of interactions between these actin forms and a variety of different types of actin-binding
	proteins. The C4 monoclonal antibody reacts with all known isoforms of actin in vertebrate
	muscle and non-muscle cells.
Molecular Weight:	42 kDa
Application Details	
Comment:	Related Products: ABIN968537, ABIN967389
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Concentration:	250 μg/mL
Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤ 0.09 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which
	should be handled by trained staff only.
Storage:	-20 °C
-	

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Handling	
Storage Comment:	Store undiluted at -20° C.
Publications	
Product cited in:	Yamamori, Itakura, Sugaya, Katsumata, Sakagami, Takahashi: "Differential expression of SNAP-
	25 family proteins in the mouse brain." in: The Journal of comparative neurology, Vol. 519,
	Issue 5, pp. 916-32, (2011) (PubMed).
	Pantaloni, Le Clainche, Carlier: "Mechanism of actin-based motility." in: Science (New York,
	N.Y.) , Vol. 292, Issue 5521, pp. 1502-6, (2001) (PubMed).
	Mitchison, Cramer: "Actin-based cell motility and cell locomotion." in: Cell , Vol. 84, Issue 3, pp.
	371-9, (1996) (PubMed).
	Hanstein Lange Schneider-Deetsch Grelig Wagner: "Detection of actin and legalization of
	Hanstein, Lange, Schneider-Poetsch, Grolig, Wagner: "Detection of actin and localization of phytochrome in the green alga Mougeotia by monoclonal antibodies." in: Acta histochemica.
	Supplementband, Vol. 41, Issue 9, pp. 223-30, (1992) (PubMed).
	Supprementand, vol. 41, issue 9, pp. 225-30, (1992) (Fubilited).

Images





Immunofluorescence

Image 2. Immunofluorescent staining of Hs68 cells with anti-Actin Ab-5.

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