

# Reli(Ab)le

## Cell Structure Antibodies

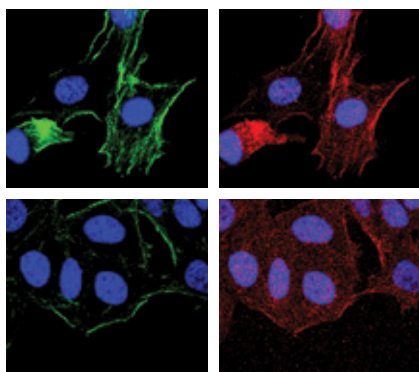
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Cell structure research involves both the fundamental structural features of the cell as well as the diverse mechanistic functions those structures allow it to perform. EMD Millipore's research focus is broad and deep. We have developed a vast array of antibody-based biochemical and visual cell analysis methods. We offer the only complete product portfolio for the study of cell structure, intracellular signaling, extracellular environment, and cellular migration and invasion.



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Confocal immunocytochemistry analysis of NIH/3T3 cells (top row) and HeLa cells (bottom row) using mouse Anti-Actin Ab, near a.a. 50-70, clone C4 (MAB1501R, red). Actin filaments labeled with Alexa Fluor® 488 Phalloidin (green). Nuclear staining with DAPI (blue).

# Primary Antibodies for Cell Structure Research

The basic principle that underlies all immunochemical techniques is that a specific antibody will combine with its target antigen to generate an exclusive antibody-antigen complex. The specificity of primary antibodies, ideally monoclonal antibodies, enables them to be used for the initial detection of the target of interest in the study of cellular pathways and mechanisms, be they native or disrupted by disease states.

Primary Antibody	Species Reactivity	Key Applications	Host	Format	Type	Cat. No.
Anti-Actin, clone C4	A	ELISA, IC, IF, IH, IH(P), WB	M	Ascites	Mono	MAB1501
Anti-Actin, near a.a. 50-70, clone C4	A	ELISA, IC, IH, IH(P), WB	M	Protein G Purified	Mono	MAB1501R
Anti-Collagen Type IV	B, H, M	DB, ELISA, IC, IH	Gt	Affinity purified	Poly	AB769
Anti-Collagen, Type IV	H, M	ELISA, IF, IH(P)	Rb	Purified	Poly	AB756P
Anti-Cortactin (p80/85), clone 4F11	Av, B, H, Ht, M, R	IC, IH, IP, WB	M	Purified	Mono	05-180
Anti-Cytokeratin 5, 6, clone D5/16B4	H, M, R	IF, IH(P), WB	M	Purified	Mono	MAB1620
Anti-Cytokeratin AE1/AE3, recognizes acidic & basic cytokeratins, clone AE1/AE3	B, Ch, H, Mk, M, R, Rb	ELISA, IH, WB	M	Purified	Mono	MAB3412
Anti-Integrin $\alpha$ 6, clone NK1-GoH3	H, M	FC, FUNC, IH	R	Purified	Mono	MAB1378
Anti-Integrin $\alpha$ V $\beta$ 3, clone LM609	Av, B, Ca, Ch, H, Mk, Po, Rb	FC, FUNC, IF, IH, IP	M	Purified	Mono	MAB1976
Anti-Integrin $\alpha$ V $\beta$ 3, clone LM609, Azide Free	Av, B, Ca, Ch, H, Mk, Po, Rb	FC, FUNC, IH, IP	M	Purified	Mono	MAB1976Z
Anti-Integrin $\beta$ 1, activated, clone HUTS-4, Azide Free	H, R	ELISA, FC, IH, WB	M	Purified	Mono	MAB2079Z
Anti-Integrin $\beta$ 1, clone MB1.2	M, R	FC, IH, IP, WB	R	Purified	Mono	MAB1997
Anti-Laminin-5 ( $\gamma$ 2 chain), clone D4B5	H	ELISA, IH(P), WB	M	Purified	Mono	MAB19562
Anti-Mouse Collagen Type I	M	ELISA, IH, RIA, WB	Rb	Purified	Poly	AB765P
Anti-Myosin Heavy Chain, clone A4.1025	Dr, H, M, R, Rb, Zf	IH, WB	M	Ascites	Mono	05-716
Anti-Partitioning-defective 3	Ca, H, Mk, M, R	IC, WB	Rb	Purified	Poly	07-330
Anti-Procollagen Type I, NT, clone M-58	H	IH(P)	R	CS	Mono	MAB1912
Anti-Tubulin, beta, clone KMX-1	A, H, M, R	IC, WB	M	Purified	Mono	MAB3408
Anti-Tubulin, Detyrosinated	H, Ma, M, Pl, R, Su	IC, IH(P), WB	Rb	Affinity purified	Poly	AB3201
Anti- $\alpha$ -Dystroglycan, clone VIA4-1	Ca, Gp, H, M, R, Rb	IH, WB	M	CS	Mono	05-298

For a complete offering of antibodies for cell structure research, please visit:  
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# Secondary Antibodies for Cell Structure Research

Secondary antibodies are often used to amplify the detection of an antigen that a primary antibody is first bound to. It is therefore important to select a secondary antibody that has specificity for the species and isotype of the primary antibody. In addition, the secondary antibody must be conjugated to a suitable tag or label for optimal detection.

Secondary Antibody	Species Reactivity	Key Applications	Host	Isotype	Conj.	Cat. No.
Anti-Green Fluorescent Protein	Vrt	ELISA, IC, IH, WB	Rb			AB3080
Anti-Myc Tag, clone 4A6	H	ChIP-seq, IC, IF, IP, WB	M	IgG		05-724
Anti-SBP-tag, clone 20	H	IC, WB	M	IgG <sub>1k</sub>		MAB10764
Donkey Anti-Goat IgG, HRP conjugate, Species Adsorbed	Gt	ELISA, IH, WB	Dk	IgG	HRP	AP180P
Donkey Anti-Mouse IgG, FITC conjugate, Species Adsorbed	M	IF	Dk	IgG	FITC	AP192F
Donkey Anti-Mouse IgG, HRP conjugate, Species Adsorbed	M	ELISA, WB	Dk	IgG	HRP	AP192P
Donkey Anti-Rabbit IgG, HRP conjugate, Species Adsorbed	Rb	ELISA, WB	Dk	IgG	HRP	AP182P
Goat Anti-Human Ig κ chain, HRP conjugate, Species Adsorbed	H	ELISA	Gt	IgK	HRP	AP502P
Goat Anti-Human IgA, α-Chain Specific Alkaline Phosphatase Conjugate	H	EIA, IEP	Gt	IgA	Alk Phos	401132-1ML
Goat Anti-Human IgG, heavy and light chains	H	IP	Gt	IgG		AB22-2ML
Goat Anti-Mouse IgG, (H+L) FITC Conjugated	M	IF	Gt	IgG	FITC	AP124F
Goat Anti-Mouse IgG, Alkaline Phosphatase conjugate	M	ELISA, WB	Gt	IgG	Alk Phos	AP124A
Goat Anti-Mouse IgG, F(ab') <sub>2</sub> , FITC conjugate	M	IF	Gt	IgG	FITC	AQ303F
Goat Anti-Mouse IgG, HRP conjugate	M	ELISA, IH, WB	Gt	IgG	HRP	12-349
Goat Anti-Mouse IgG, HRP conjugate, Species Adsorbed	M	ELISA, WB	Gt	IgG	HRP	AP181P
Goat Anti-Mouse IgG, Peroxidase Conjugated, H+L	M	ELISA, IH, WB	Gt	IgG	HRP	AP124P
Goat Anti-Rabbit IgG, HRP-conjugate	Rb	ELISA, IH, WB	Gt	IgG	HRP	12-348
Goat Anti-Rabbit IgG, Peroxidase Conjugated	Rb	ELISA, IH, WB	Gt	IgG	HRP	AP132P
Goat Anti-Rabbit γ-Globulin	Rb	IEP, RIA	Gt	IgG		539844-125U
His•Tag® Monoclonal		IP, IL, WB		IgG1		70796-3
Mouse Anti-Human IgG, Fc, all subclasses, clone MK1A6	H	ELISA, IF, HI, IH	M	IgG1		CBL101
Normal Rabbit IgG		IP, WB	Rb	IgG		12-370
Rabbit Anti-Goat IgG, HRP conjugate	Gt	ELISA, IH, WB	Rb	IgG	HRP	AP106P
S•Tag™ Monoclonal		IB, IF, IP		IgG <sub>2b</sub>		71549-3

For a complete offering of antibodies for cell structure research, please visit:  
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# Small Molecules for Cell Structure Research

Chemical genetics, in which function is disrupted using small molecules, can shed light on specific disease state mechanisms. Small-molecule compounds, including inhibitors, activators, and other pathway modulators, are critical cellular transduction research tools.

Small Molecule Inhibitor or Activator	Cat. No.
Jasplakinolide, <i>Jaspis johnstoni</i>	420107
Latrunculin A, <i>Latrunculia magnifica</i>	428021
N-WASP Inhibitor, 187-I	681660
Paclitaxel, Semi-Synthetic	580556
Swinholide A, <i>Theonella swinhoei</i>	574776
Tubulin Polymerization Inhibitor II	654164
Vincristine Sulfate, <i>Apocynaceae</i> sp.	677181
Wiskostatin	681525

## LEGEND:

**Species:** A=all, Am=amphibian, Av=avian, B=bovine, Ca=canine, Ch=chicken, Chp=chimpanzee, Dk=donkey, Dr=drosophila, Eu=eukaryote, F=fish, Fe=feline, Fg=frog, Ft=ferret, Gp=guinea pig, Gt=goat, Ht=hamster, H=human, Lz=lizard, Ma=mammal, Mk=monkey, Ml=mollusk, M=mouse, Op=opossum, Pl=green plant, Pm=primate, Po=pig, R=rat, Rb=rabbit, RMk=Rhesus macaque, Sal=salamander, Sh=sheep, Sqd=squid, Su=sea urchin, T=tetrahymena, Vo=vole, Vrt=vertebrate, Xn=xenopus, Zf=zebrafish

**Applications:** CFA=cell function assay, ChIP=chromatin immunoprecipitation, ChIP-seq=chromatin immunoprecipitation sequencing, DB=dot blot, EIA=enzyme immunoassay, EMSA=electrophoretic mobility shift assay, FC=flow cytometry, FUNC=affects function, HI=hemagglutination inhibition, IAP=immunoaffinity purification, IB=immunoblotting, IC=immunocytochemistry, IEP=immunoelectrophoresis, IF=immunofluorescence, IH=immunohistochemistry, IH(P)=immunohistochemistry (paraffin), IL=immunolocalization, IP=immunoprecipitation, Mplex=multiplexing, NEUT=neutralizing, PIA=peptide inhibition assay, RIA=radioimmunoassay, RIP=RNA immunoprecipitation, WB=western blotting

**Format:** Alk Phos=alkaline phosphatase, CS=culture supernatant

**Type:** Mono=monoclonal antibody, Poly=polyclonal antibody

**Isotype:** IgA=immunoglobulin A, IgG=immunoglobulin G, IgK=immunoglobulin K

**Conjugation:** Alk Phos=alkaline phosphatase, FITC=fluorescein isothiocyanate, HRP=horseradish peroxidase

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