Suit(Ab)le

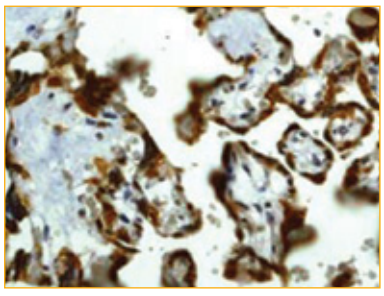
ChIP and RIP Antibodies

We're selective. We're specific. We're scientists. We create the antibodies that are most relevant for today's research needs.

Chromatin immunoprecipitation (ChIP) requires a highly epitope-specific antibody that recognizes the protein or modified residues of interest in their native chromatin states or possible crosslinked conformations. Each lot of EMD Millipore's ChIPAb+™ and RIPAb+™ antibodies is validated and tested for ChIP and RNA immunoprecipitation (RIP). The kits also include a negative control antibody and control primers for amplifying a known enriched locus to help you validate your results.

Validated Antibodies for Key Research Areas:

- Cancer
- Cell Signaling
- Cell Structure
- **ChIPAb+™/RIPAb+™** ✔
- Chromatin-Associated
- Epigenetics
- Neuroscience
- Stem Cell



Immunohistochemistry analysis of paraffin-embedded human placenta tissue using 1:100-1:250 dilution of RIPAb+™ Musashi 2 - RIP Validated Antibody and Primer Set, rabbit monoclonal (03-115).

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Primary Antibodies for Immunoprecipitation 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.

Primer Sets	Species Reactivity	Key Applications	Host	Format	Type	Cat. No.
ChIP Validated Antibody and Primer Set						
ChIPAb+™ Acetyl-Histone H3	H, M, T	ChIP, WB	Rb	Purified	Poly	17-615
ChIPAb+™ Acetyl-Histone H3 (Lys14), rabbit monoclonal	H, R	ChIP, ChIP-seq, IC, IH(P), IP, WB	Rb	Unpurified	Mono	17-10051
ChIPAb+™ Acetyl-Histone H3 (Lys9) Purified	H, Ma, M	ChIP, IC, WB	Rb	Protein A Purified	Poly	17-658
ChIPAb+™ CREB, rabbit monoclonal	H, M, R	ChIP, WB	Rb	CS	Mono	17-600
ChIPAb+™ Dimethyl-Histone H3 (Lys9)	H, Ma, M	ChIP, IP, WB	Rb	Serum	Poly	17-648
ChIPAb+™ EED	B, Ca, Ch, H, M, Op, R	ChIP, WB	Rb	Affinity purified	Poly	17-10034
ChIPAb+™ EED	H, M	ChIP, WB	M	Protein G Purified	Mono	17-663
ChIPAb+™ EZH2, clone AC22	H, M, R, Vrt	ChIP, WB	M	Purified	Mono	17-662
ChIPAb+™ HDAC1	H, M	ChIP, WB	M	CS	Mono	17-608
ChIPAb+™ Histone H3 (CT), rabbit monoclonal	Ch, H, M, R, *S. cerevisiae*	ChIP, DB, IP, WB	Rb	CS	Mono	17-10046
ChIPAb+™ HP1γ	H, M, Vrt	CFA, ChIP, WB	M	Ascites	Mono	17-646
ChIPAb+™ NFκB p65 (RelA)	H, M, R	ChIP, WB	M	Purified	Mono	17-10060
ChIPAb+™ p53	H	ChIP, WB	M	Purified	Mono	17-613
ChIPAb+™ REST	H, M, R	ChIP, ChIP-seq, IP, WB	Rb	Affinity purified	Poly	17-641
ChIPAb+™ RNA Pol II	H, M, R, *S. cerevisiae*	ChIP, IF, IP	M	Purified	Mono	17-620
ChIPAb+™ RNA Pol II	H, M, R, *S. cerevisiae*	ChIP, IC, IH, WB	M	Ascites	Mono	17-672
ChIPAb+™ Sp1	H, M, R	ChIP, WB	Rb	Purified	Poly	17-601
ChIPAb+™ SUZ12	H, M, R, Vrt	ChIP, DB, WB	M	Protein A Purified	Mono	17-661
ChIPAb+™ TCF-4	H, M	ChIP, DB, WB	M	Purified	Mono	17-10109
ChIPAb+™ Trimethyl-Histone H3 (Lys27)	H, M	ChIP, WB	Rb	Protein A Purified	Poly	17-622
ChIPAb+™ Trimethyl-Histone H3 (Lys36), rabbit monoclonal	Ch, H	CFA, ChIP, DB, WB	Rb	Purified	Mono	17-10032
ChIPAb+™ Trimethyl-Histone H3 (Lys4), rabbit monoclonal	H, Ma, M	ChIP, ChIP-seq, WB	Rb	Purified	Mono	17-614
ChIPAb+™ Trimethyl-Histone H3 (Lys4)	H, Vrt	ChIP, IC, WB	M	Protein G Purified	Mono	17-678
ChIPAb+™ Trimethyl-Histone H3 (Lys9)	Vrt	ChIP, DB, WB	Rb	Purified	Poly	17-625
ChIPAb+™ Histone H3.3	H, M	ChIP, DB, WB	Rb	Affinity purified	Poly	17-10245
ChIPAb+™ Phospho-CREB (Ser133)	Ht, H, M, R	ChIP, EMSA, IH, IP, WB	Rb	Purified	Poly	17-10131
RIP Validated Antibody and Primer Set						
RIPAb+™ Ago2	B, H	IP, RIP, WB	M	Ascites	Mono	03-110
RIPAb+™ AUF1	H, M, R	IP, RIP, WB	Rb	Purified	Poly	03-111
RIPAb+™ CUGBP1	B, H, M, Po, R, Rb	IP, RIP, WB	M	Purified	Mono	03-104
RIPAb+™ EF1α	H, Ma, *S. cerevisiae*	IP, RIP, WB	M	Purified	Mono	03-107
RIPAb+™ Fragile X Mental Retardation Protein	H, M, R	ELISA, IC, IH, IH(P), IP, RIP, WB	M	Purified	Mono	03-108
RIPAb+™ HuR	H, M, R	IC, IH, IP, RIP, WB	Rb	Purified	Poly	03-102
RIPAb+™ Lin28	H, M	IP, RIP, WB	Rb	Serum	Poly	03-105
RIPAb+™ Musashi 2, rabbit monoclonal	H, M, R	FC, IH(P), RIP, WB	Rb	Unpurified	Mono	03-115
RIPAb+™ p54nrb/NonO	H, R	IH, IP, RIP, WB	M	Purified	Mono	03-113
RIPAb+™ PABPC1	H, Rb, Xn	IP, RIP, WB	M	Purified	Mono	03-101
RIPAb+™ SNRNP70	B, Ca, H, M, R	IP, RIP, WB	Rb	Purified	Poly	03-103
RIPAb+™ Upf1	B, Ca, H, M, R	IP, RIP, WB	Rb	Purified	Poly	03-191
RIPAb+™ EED	H, M	IP, RIP, WB	M	Ascites	Mono	03-196
RIPAb+™ hnRNPA1	H	IP, RIP, WB	M	Purified	Mono	03-204
RIPAb+™ SUZ12	H	IP, RIP, WB	M	Purified	Mono	03-179

For a complete offering of antibodies for immunoprecipitation research, please visit: **www.emdmillipore.com**

Secondary Antibodies for Immunoprecipitation 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	$IgG_{1\kappa}$		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')2, 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_{2b}		71549-3

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Small Molecules for Immunoprecipitation 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.
Adenosine 3′,5′-cyclic Monophosphate, N^6,O2′-Dibutyryl-, Sodium Salt	28745
Cdk1 Inhibitor IV, RO-3306	217699
Cycloheximide	239763
Foxo1 Inhibitor, AS1842856	344355
Hygromycin B, *Streptomyces* sp.	400051
Lactimidomycin	506291
Latrunculin A, *Latrunculia magnifica*	428021
Necrostatin-1	480065
PP1 Analog II, 1NM-PP1	529581
Tunicamycin, *Streptomyces lysosuperficus*	654380

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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