

RECOMBINANT PROTEINS

Purification and Detection Products

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Introduction

Today, researchers are challenged to create high quality samples for meaningful protein analysis, often using cumbersome traditional sample preparation methods. With over 50 years of experience in developing protein sample preparation technologies, MilliporeSigma is constantly innovating new tools to offer you rapid and efficient solutions that can be smoothly integrated into your workflow.

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Histidine (6xHis)

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Purification

Application/Format	Cat #	Product	Binding Capacity
FPLC			
Ni-charged highly cross-linked agarose	H0537	His-Select® High Flow Nickel Affinity Gel	15 mg/mL
Ni-charged NTA Superflow	70691	Ni-NTA His-Bind® Superflow	5-10 mg/mL
Gravity flow			
Cobalt charged agarose	H8162	His-Select® Cobalt Affinity Gel	15 mg/mL
Ni-charged agarose	P6611	His-Select® Nickel Affinity Gel	15 mg/mL
Ni-charged NTA agarose	70666	Ni-NTA His-Bind® Resin	5-10 mg/mL
Uncharged IDA agarose	69670	His-Bind® Resin	8 mg/mL
HTS			
Magnetic bead	LSKMAGH	PureProteome™ Nickel Magnetic Beads	5 mg/mL
Pre-packed dry silica matrix in 96-well filter plate	H0413	His-Select® Filter Plate	1 mg/well
IP			
Magnetic bead	LSKMAGH	PureProteome™ Nickel Magnetic Beads	5 mg/mL
Vivid red dye agarose	E3528	EZview™ His-Select® Red Affinity Gel	15 mg/mL
Miniprep			
Pre-packed dry silica matrix in spin column	H7787	His-Select® Nickel Spin Columns	150 µg column

Detection

Application/Type	Cat #	Product
ELISA		
mAb	OB05	Anti-Histidine-Tagged Protein Mouse mAb (13/45/31/2)
	71184	His•Tag® Antibody Plate
	H1029	Monoclonal Anti-polyHistidine antibody
ICC		
mAb	05-949	Anti-Histidine Tagged Antibody, clone HIS.H8
IF		
mAb	OB05	Anti-Histidine-Tagged Protein Mouse mAb (13/45/31/2)
IP		
mAb	05-949	Anti-Histidine Tagged Antibody, clone HIS.H8
	OB05	Anti-Histidine-Tagged Protein Mouse mAb (13/45/31/2)
	H1029	Monoclonal Anti-polyHistidine antibody
Western blot		
HRP Conjugate	71840	His•Tag® Antibody HRP Conjugate Kit
	A7058	Peroxidase conjugate
mAb	05-949	Anti-Histidine Tagged Antibody, clone HIS.H8
	H1029	Monoclonal Anti-polyHistidine antibody

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FLAG

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Purification

Application/Format	Cat #	Product	Binding Capacity
Elution of 3xFLAG™ fusion proteins			
Peptides	F4799	3xFLAG™ peptide	
Elution of FLAG® fusion proteins			
Peptides	F3290	FLAG® peptide	
HTS			
Magnetic bead	M8823	Anti-FLAG® M2 Magnetic Beads	≥0.6 mg/mL
IP			
Loose agarose resin	A4596	Anti-FLAG® M1 Affinity Gel	≥0.6 mg/mL
	A2220	Anti-FLAG® M2 Affinity Gel	≥0.6 mg/mL
Magnetic bead	M8823	Anti-FLAG® M2 Magnetic Beads	≥0.6 mg/mL
Vivid red dye agarose	F2426	EZview™ Red Anti-FLAG® M2 Affinity Gel	≥0.6 mg/mL
Purification of FLAG® and 3xFLAG™ fusion proteins			
Loose agarose resin	A2220	Anti-FLAG® M2 Affinity Gel	≥0.6 mg/mL
Purification of FLAG® fusion proteins			
Loose agarose resin	A4596	Anti-FLAG® M1 Affinity Gel	≥0.6 mg/mL

Detection

Application/Type	Cat #	Product
ELISA		
mAb	F1804	Monoclonal Anti-FLAG® M2 antibody (mouse)
	F3165	Monoclonal Anti-FLAG® M2 antibody (mouse)
	F2555	Monoclonal Anti-FLAG® antibody (rabbit)
ICC/IHC		
mAb	F1804	Monoclonal Anti-FLAG® M2 antibody (mouse)
	F3165	Monoclonal Anti-FLAG® M2 antibody (mouse)
	F2555	Monoclonal Anti-FLAG® antibody (rabbit)
IF		
mAb	F7425	Anti-FLAG® antibody (rabbit)
	F1804	Monoclonal Anti-FLAG® M2 antibody (mouse)
	F3165	Monoclonal Anti-FLAG® M2 antibody (mouse)
IP		
mAb	F7425	Anti-FLAG® antibody (rabbit)
	SAB4200071	Anti-FLAG® antibody, Rat monoclonal
	F1804	Monoclonal Anti-FLAG® M2 antibody (mouse)
	F3165	Monoclonal Anti-FLAG® M2 antibody (mouse)
Western blot		
mAb	F7425	Anti-FLAG® antibody (rabbit)
	SAB4200071	Anti-FLAG® antibody, Rat monoclonal
	F3040	Monoclonal Anti-FLAG® M1 antibody (mouse)
	F1804	Monoclonal Anti-FLAG® M2 antibody (mouse)
	F3165	Monoclonal Anti-FLAG® M2 antibody (mouse)
	F4042	Monoclonal Anti-FLAG® M5 antibody (mouse)
	F2555	Monoclonal Anti-FLAG® antibody (rabbit)

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Hemagglutinin A (HA)

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Purification

Application/Format	Cat #	Product	Binding Capacity
Affinity purification			
Loose agarose resin	A2095	Monoclonal Anti-HA–Agarose (mouse)	30-50 nmol/mL
IP			
IP Kit	IP0010	Anti-HA Immunoprecipitation Kit	50 assays
Loose agarose resin	A2095	Monoclonal Anti-HA–Agarose (mouse)	30-50 nmol/mL
Vivid red dye agarose	E6779	EZview™ Red Anti-HA Affinity Gel	≥0.4 mg/mL

Detection

Application/Type	Cat #	Product
ICC		
mAb	H3663	Monoclonal Anti-HA antibody (mouse)
Polyclonal	AB3254	Anti-HA Epitope Tag (Influenza Hemagglutinin) Antibody
IF		
Fluorescent Conjugate	H9037	Monoclonal Anti-HA–TRITC antibody (mouse)
IP		
mAb	H3663	Monoclonal Anti-HA antibody (mouse)
Polyclonal	AB3254	Anti-HA Epitope Tag (Influenza Hemagglutinin) Antibody
Western blot		
Alkaline Phosphatase Conjugate	A5477	Monoclonal Anti-HA–Alkaline Phosphatase antibody (mouse)
Biotin Conjugate	B9183	Monoclonal Anti-HA–Biotin antibody (mouse)
FITC Conjugate	H7411	Anti-HA–FITC antibody, Mouse monoclonal
HRP Conjugate	H6533	Monoclonal Anti-HA–Peroxidase antibody (mouse)
mAb	04-902	Anti-HA Tag Antibody, clone DW2, rabbit monoclonal
	H3663	Monoclonal Anti-HA antibody (mouse)
Polyclonal	AB3254	Anti-HA Epitope Tag (Influenza Hemagglutinin) Antibody

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Glutathione S-Transferase (GST)

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Purification

Application/Format	Cat #	Product	Binding Capacity
Affinity purification			
Agarose	G4510	Glutathione-agarose	5-10 mg/mL
	70541	GST•Bind™ Resin	5-8 mg/mL
Columns	G3907	Glutathione-agarose Pre-packed Columns (3x2.5 mL)	5-10 mg/mL
IP			
Agarose	A8580	Anti-Glutathione-S-Transferase (GST)-Agarose (rabbit)	>100 µg/mL
Vivid red dye agarose	E6406	EZview™ Red Glutathione Affinity Gel	5-10 mg/mL

Detection

Application/Type	Cat #	Product
ELISA		
Alkaline Phosphatase Conjugate	A5838	Anti-Glutathione-S-Transferase (GST)-Alkaline Phosphatase Conjugate antibody (rabbit)
mAb	MAC111	Anti-GST•Tag™ fusion protein Antibody
ICC		
mAb	MAC111	Anti-GST•Tag™ fusion protein Antibody
IP		
mAb	MAC111	Anti-GST•Tag™ fusion protein Antibody
Western blot		
HRP Conjugate	A7340	Anti-Glutathione-S-Transferase (GST)-Peroxidase Conjugate antibody (rabbit)
	16-209	Anti-GST•Tag™ Antibody, clone DG122-2A7, HRP Conjugate
mAb	05-782	Anti-GST•Tag™ Antibody
	MAC111	Anti-GST•Tag™ fusion protein Antibody
	G1160	Monoclonal Anti-Glutathione-S-Transferase (GST) antibody (mouse)
Polyclonal	06-332	Anti-GST•Tag™ Antibody

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c-Myc

Purification

Application/Format	Cat #	Product	Binding Capacity
Affinity purification			
Loose agarose resin	A7470	Anti-c-Myc Agarose Affinity Gel (rabbit)	≥10 nmol/mL
IP			
IP Kit	IP0020	Anti-c-Myc Immunoprecipitation Kit	50 assays
Loose agarose resin	A7470	Anti-c-Myc Agarose Affinity Gel (rabbit)	≥10 nmol/mL
Vivid red dye agarose	E6654	EZview™ Red Anti-c-Myc Affinity Gel	~.05 mg/mL

For details and ordering, click underlined catalog numbers.

Detection

Application/Type	Cat #	Product
ICC		
FITC Conjugate	F2047	Monoclonal Anti-c-Myc–FITC antibody (mouse)
mAb	M4439	Monoclonal Anti-c-Myc antibody (mouse)
IHC		
mAb	M4439	Monoclonal Anti-c-Myc antibody (mouse)
IP		
mAb	M4439	Monoclonal Anti-c-Myc antibody (mouse)
Western blot		
Biotin Conjugate	B7554	Monoclonal Anti-c-Myc–Biotin antibody (mouse)
HRP Conjugate	A5598	Anti-c-Myc–Peroxidase antibody (rabbit)
mAb	M4439	Monoclonal Anti-c-Myc antibody (mouse)

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Strep Tag II

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Purification

Application/Format	Cat #	Product	Binding Capacity
Elution			
Lyophilized powder	71610	D-Desthiobiotin	n/a
FPLC			
Highly cross-linked agarose	71592	Strep-Tactin® Superflow™ Agarose	50-100 nmol
Gravity flow			
Highly cross-linked agarose	71592	Strep-Tactin® Superflow™ Agarose	50-100 nmol
Miniprep			
Pre-packed minispin columns	71608	Strep-Tactin® SpinPrep™ Kit	Purifies ≤150 µg Strep•Tag® II

Detection

Application/Type	Cat #	Product
Western blot		
HRP Conjugate	71591	Strep•Tag® II Antibody HRP Conjugate
mAb	71590	Strep•Tag® II Monoclonal Antibody

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V5

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Purification

Application/Format	Cat #	Product	Binding Capacity
Affinity purification			
Loose agarose resin	A7345	Anti-V5 Agarose Affinity Gel (mouse)	2.5 nmol/mL
Displacement of V5-fusion proteins in immunoassays			
Lyophilized powder	V7754	V5 peptide	n/a
IP			
Loose agarose resin	A7345	Anti-V5 Agarose Affinity Gel (mouse)	2.5 nmol/mL

Detection

Application/Type	Cat #	Product
ICC		
Fluorescent Conjugate	V4014	Monoclonal Anti-V5-Cy3™ antibody (mouse)
mAb	V8012	Monoclonal Anti-V5 antibody (mouse)
Polyclonal	V8137	Anti-V5 antibody (rabbit)
	AB3792	Anti-V5 Epitope Tag Antibody
IP		
Polyclonal	V8137	Anti-V5 antibody (rabbit)
	AB3792	Anti-V5 Epitope Tag Antibody
Western blot		
HRP Conjugate	V2260	Monoclonal Anti-V5-Peroxidase antibody (mouse)
mAb	V8012	Monoclonal Anti-V5 antibody (mouse)
Polyclonal	V8137	Anti-V5 antibody (rabbit)
	AB3792	Anti-V5 Epitope Tag Antibody

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T7

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Purification

Application/Format	Cat #	Product	Binding Capacity
Affinity purification			
Chromatography column kit	69025	T7•Tag® Affinity Purification Kit	>300 µg T7•Tag® β-gal/mL
Loose agarose resin	69026	T7•Tag® Antibody Agarose	>300 µg T7•Tag® β-gal/mL

Detection

Application/Type	Cat #	Product
ELISA		
Polyclonal	AB3790	Anti-T7 Epitope Tag Antibody, T7 (MASMTGGQQMG)
ICC		
Polyclonal	AB3790	Anti-T7 Epitope Tag Antibody, T7 (MASMTGGQQMG)
IP		
Polyclonal	AB3790	Anti-T7 Epitope Tag Antibody, T7 (MASMTGGQQMG)
Western blot		
mAb	MAC113	Anti-T7•Tag® fusion protein Antibody
	T8823	Monoclonal Anti-T7 tag antibody (mouse)
Polyclonal	AB3790	Anti-T7 Epitope Tag Antibody, T7 (MASMTGGQQMG)

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S-tag

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Purification

Application/Format	Cat #	Product	Binding Capacity
Affinity purification			
Loose agarose resin	69704	S-protein Agarose	Varies by target protein

Detection

Application/Type	Cat #	Product
IF		
mAb	71549	S•Tag™ Monoclonal Antibody
IP		
mAb	71549	S•Tag™ Monoclonal Antibody
Western blot		
mAb	71549	S•Tag™ Monoclonal Antibody