Motif and PTM Antibodies

Motif and PTM-specific antibodies:

- recognize phosphorylated residues within characteristic sequence motifs (motif antibody), or other PTMs in a context-independent manner (PTM antibody).
- are rigorously validated for specificity and sensitivity using methods such as western blotting, peptide arrays, and peptide IP followed by LC-MS/MS (PTMScan® technology).
- can be used for multi-pathway analysis, proteomic analysis, and in situations where no target-specific antibody is available.

Western blot analysis of extracts from A-431 cells, untreated (−) or treated with Human Epidermal Growth Factor (hEGF) #6916 (100 ng/ml, 5 min; +), using Phospho-Tyrosine (pY-1000) MultiMab™ Rabbit mAb mix. Western blot image was obtained using the Odyssey® Infrared Imaging System (LI-COR® Biotechnology).

Confluent immunofluorescent analysis of C2C12 cells, serum-starved (left), treated with H$_2$O$_2$ (2 mM, 10 min; middle), or treated with H$_2$O$_2$ followed by λ phosphatase (right), using Phospho-Tyrosine (pY-1000) MultiMab™ Rabbit mAb mix (green). Actin filaments were labeled with DyLight™ 554 Phalloidin #14390 (red). Blue pseudocolor = DRAQ5 (fluorescent DNA dye).

Serum-starved
H$_2$O$_2$-treated
H$_2$O$_2$ + λ phosphatase

MultiMab™ Antibody Mixes – Broader coverage

MultiMab™ rabbit monoclonal antibody mixes combine individual rabbit monoclonal clones in optimized ratios for broadest possible coverage of the motif/PTM of interest. They are used in PTMScan® Services and Kits and are available off the shelf for other applications.

**Product Listing**

**Ser/Thr Phosphorylation**

<table>
<thead>
<tr>
<th>Product Name</th>
<th>VALIDATED APPLICATIONS$^*$</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>WB, IP</strong></td>
<td><strong>E-P</strong></td>
</tr>
<tr>
<td><strong>WB, IP, E-P</strong></td>
<td><strong>WB, IP</strong></td>
</tr>
<tr>
<td><strong>WB, IP, IHC-P, E-P</strong></td>
<td><strong>WB, IP, IHC-P, E-P</strong></td>
</tr>
<tr>
<td>#9601 Phospho-(Ser) 14-3-3 Binding Motif Antibody</td>
<td>WB, IP, IHC-P, E-P</td>
</tr>
<tr>
<td>#9605 Phospho-(Ser) 14-3-3 Binding Motif (4E2) Mouse mAb</td>
<td>WB, IP, E-P</td>
</tr>
<tr>
<td>#9614 Phospho-Akt Substrate (R005'T7') (11087E) Rabbit mAb</td>
<td>WB, IP, IHC-P, E-P</td>
</tr>
<tr>
<td>#4950 Phospho-Akt Substrate (R005'T7') (11087E) Rabbit mAb (HRP Conjugate)</td>
<td>WB</td>
</tr>
<tr>
<td>#4950 Phospho-Akt Substrate (R005'T7') (11087E) Rabbit mAb (Magnetic Bead Conjugate)</td>
<td>IP</td>
</tr>
<tr>
<td>#9646 Phospho-Akt Substrate (R005'T7') (23C18D2) Rabbit mAb</td>
<td>WB, IP, E-P</td>
</tr>
<tr>
<td>#9645 Phospho-(Ser/Thr) ATM/ATR Substrate Antibody</td>
<td>WB, IP, IHC-P, E-P</td>
</tr>
<tr>
<td>#9645 Phospho-(Ser/Thr) ATM/ATR Substrate (4F7) Rabbit mAb</td>
<td>WB, IP, IHC-P, E-P</td>
</tr>
<tr>
<td>#9645 Phospho-(Ser/Thr) ATM/ATR Substrate (S*Q) (D23H2/D69H5) MultiMab</td>
<td>WB, IP, IHC-P, E-P</td>
</tr>
<tr>
<td>#8989 Phospho-(Ser/Thr) ATM/ATR Substrate Motif [(pS/pT) QG] MultiMab</td>
<td>WB, IP, IHC-P, E-P</td>
</tr>
<tr>
<td>#9477 Phospho-CDK Substrate Motif [(K/H)pSP] MultiMab™ Rabbit mAb mix</td>
<td>WB, IP, E-P</td>
</tr>
<tr>
<td>#14371 Phospho-CDK Substrate [pTPXK] (D95VN) Rabbit mAb</td>
<td>WB, IP</td>
</tr>
<tr>
<td>#8738 Phospho-Cdk2 Substrate (pS/pT)X(pS/pT)X[pS/pT] MultiMab™ Rabbit mAb mix</td>
<td>WB</td>
</tr>
<tr>
<td>#2325 Phospho-MAPK/CDK Substrates (PXS<em>P or S</em>XpP) (34B2) Rabbit mAb</td>
<td>WB, IP, IHC-P, E-P</td>
</tr>
<tr>
<td>#5501 Phospho-MAPK/CDK Substrates (PXS<em>P or S</em>XpP) (34B2) Rabbit mAb (Sepharose® Bead Conjugate)</td>
<td>IP</td>
</tr>
<tr>
<td>#14378 Phospho-MAPK/CDK Substrates Motif [P(X)pT] MultiMab™ Rabbit mAb mix</td>
<td>WB</td>
</tr>
<tr>
<td>#9634 Phospho-(Thr/Thr) PDK1 Docking Motif (118A2 Mouse mAb</td>
<td>WB, IP, E-P</td>
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<tr>
<td>#9621 Phospho-(Ser/Thr) PDK Substrate Antibody</td>
<td>WB, IP, IHC-P, E-P</td>
</tr>
<tr>
<td>#9624 Phospho-PKA Substrate (RRXS'T') (10007E) Rabbit mAb</td>
<td>WB, IP, E-P</td>
</tr>
<tr>
<td>#6967 Phospho-PKC Substrate Motif [(R/K)pSX(R/K)] MultiMab™ Rabbit mAb mix</td>
<td>WB</td>
</tr>
<tr>
<td>#2261 Phospho-(Ser) PKC Substrate Antibody</td>
<td>WB, IP, E-P</td>
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<tr>
<td>#4381 Phospho-(Ser/Thr) PKD Substrate Antibody</td>
<td>WB, IP, E-P</td>
</tr>
<tr>
<td>#5243 Phospho-PLK Binding Motif (ST*) (D73F) Rabbit mAb</td>
<td>WB, IP, E-P</td>
</tr>
<tr>
<td>#14390 Phospho-Ser-Pro-Pro Motif (pSPP) Rabbit mAb</td>
<td>WB</td>
</tr>
<tr>
<td>#8142 Phospho-Thr-Pro-Arg Motif (pTPTP) MultiMab™ Rabbit mAb mix</td>
<td>WB</td>
</tr>
<tr>
<td>#5757 Phospho-Thr-Pro-Pro Motif (pTPP) (D61C3) Rabbit mAb</td>
<td>WB</td>
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</tbody>
</table>

For additional information on our PTM and motif antibodies visit: [www.cellsignal.com/motif](http://www.cellsignal.com/motif)
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### Sampler Kits

- **#9920** Phospho-(Ser/Thr) Kinase Substrate Antibody Sampler Kit
- **#9615** Phospho-(Ser) Kinase Substrate Antibody Sampler Kit

### Tyr Phosphorylation

- **#9411** Phospho-Tyrosine Mouse mAb (P-Tyr-100) WB, IP, IH-C, F-P, IF, IF-IC, F, E-P
- **#9414** Phospho-Tyrosine Mouse mAb (P-Tyr-100) (Alexa Fluor 488 Conjugate) F
- **#9415** Phospho-Tyrosine Mouse mAb (P-Tyr-100) (Alexa Fluor 647 Conjugate) IF-IC, F
- **#9417** Phospho-Tyrosine Mouse mAb (P-Tyr-100) (Biotinylated) WB, IP, IH-C-P
- **#5465** Phospho-Tyrosine Mouse mAb (P-Tyr-100) (HRP Conjugate) WB, IP, E-P
- **#8095** Phospho-Tyrosine Mouse mAb (P-Tyr-100) (Magnetic Bead Conjugate) IP
- **#14967** Phospho-Tyrosine Mouse mAb (P-Tyr-100) (PE Conjugate) F
- **#9419** Phospho-Tyrosine Mouse mAb (P-Tyr-100) (Sepharose® Bead Conjugate) IP
- **#9416** Phospho-Tyrosine Mouse mAb (P-Tyr-102) WB, IP, F, E-P
- **#8954** Phospho-Tyrosine (P-Tyr-1000) MultiMab™ Rabbit mAb mix WB, IP, IF, IC, IP
- **#14219** Phospho-Tyrosine (P-Tyr-1000) MultiMab™ Rabbit mAb mix (Biotinylated) WB
- **#12695** Phospho-Tyrosine (P-Tyr-1000) MultiMab™ Rabbit mAb mix (HRP Conjugate) WB
- **#14017** Phospho-Tyrosine (P-Tyr-1000) MultiMab™ Rabbit mAb mix (Magnetic Bead Conjugate) IP
- **#14005** Phospho-Tyrosine (P-Tyr-1000) MultiMab™ Rabbit mAb mix (Sepharose® Bead Conjugate) IP

### Acetylation

- **#9614** Acetylated-Lysine (Ac-K-100) MultiMab™ Rabbit mAb mix WB, IP, HCP, E-P
- **#6952** Acetylated-Lysine (Ac-K-100) MultiMab™ Rabbit mAb mix (HRP Conjugate) WB
- **#9441** Acetylated-Lysine Antibody WB, IP, HH-P, IF-IC, FIP, E-P
- **#9681** Acetylated-Lysine Mouse mAb (Ac-K-103) WB, E-P

### Malonylation

- **#14942** Malonyl-Lysine [Mal-K] MultiMab™ Rabbit mAb mix WB

### Methylation

- **#8015** Mono-Methyl-Arginine [mme-R] MultiMab™ Rabbit mAb mix WB, IP
- **#14117** Di-Methyl-Lysine Motif [dme-K] MultiMab™ Rabbit mAb mix WB, IP
- **#14680** Tri-Methyl-Lysine Motif [tme-K] (D1L1X) Rabbit mAb mix WB
- **#13522** Asymmetric Di-Methyl Arginine Motif [adm-K] MultiMab™ Rabbit mAb mix WB
- **#13222** Symmetric Di-Methyl Arginine Motif [sdme-K] MultiMab™ Rabbit mAb mix WB

### Nitrosylation

- **#9691** Nitro-Tyrosine Antibody WB

### Proteolytic Cleavage

- **#8698** Cleaved Caspase Substrate Motif [DE/T/S/A] MultiMab™ Rabbit mAb mix W

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### KinomeView® Profiling

The following phospho-motif and PTM antibodies are included in the KinomeView® Profiling Kit #9812 for a kinome-wide view of phosphorylation:

- **#9614** Phospho-Akt Substrate [RXXS/T] (110B7E) Rabbit mAb
- **#10001** Phospho-Akt Substrate [R0XXS/T] (238C2D) Rabbit mAb
- **#5759** Phospho-AMPK Substrate Motif [pS/pT] MultiMab™ Rabbit mAb mix
- **#9607** Phospho-ATM/ATR Substrate (S/Q) (G23H2/D69H5) MultiMab™ Rabbit mAb mix
- **#6966** Phospho-ATM/ATR Substrate Motif [pS/pT] MultiMab™ Rabbit mAb mix
- **#9477** Phospho-CDK Substrate Motif [K/H/pSP] MultiMab™ Rabbit mAb mix
- **#8738** Phospho-CK2 Substrate [pS/pT] MultiMab™ Rabbit mAb mix
- **#2325** Phospho-MAPK/CDK Substrates (PXS*P or S*PXK) (34B2) Rabbit mAb
- **#9634** Phospho-(Ser/Thr) PDK1 Docking Motif (18A2) Mouse mAb
- **#9624** Phospho-PKA Substrate [RXXS/T] (100G7E) Rabbit mAb
- **#6967** Phospho-PKC Substrate Motif [pK/pS/K] MultiMab™ Rabbit mAb mix
- **#5243** Phospho-PLK Binding Motif (ST-P) (D73F6) Rabbit mAb
- **#3003** Phospho-Thr-Pro Motif Antibody
- **#3004** Phospho-Thr-Pro-Glu (132G12) Rabbit mAb
- **#2351** Phospho-Threonine-X-Arginine Antibody
- **#8954** Phospho-Tyrosine (P-Tyr-1000) MultiMab™ Rabbit mAb mix

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*APPLICATIONS* WB: Western Blotting • IP: Immunoprecipitation • IHC: Immunohistochemistry • ChiP: Chromatin Immunoprecipitation • IF: Immunofluorescence • F: Flow Cytometry • IC: Immunochemistry • P: Paraffin • F: Frozen • E-P: Peptide ELISA

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