

## Product datasheet for **AM00122PU-N**

### Phosphothreonine 3x sampler kit (incl. pos. control) Mouse Monoclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, IP, WB
Reactivity:	Canine, Human, Mouse, Rat
Host:	Mouse
Clonality:	Monoclonal
Specificity:	Clones 1E11, 4D11 and 14B3 recognize a broad range of threonine-phosphorylated proteins in crude cell extracts, providing a valuable tool for non-radioactive phosphothreonine detection.
Formulation:	State: Purified
Conjugation:	Unconjugated
Background:	<p>Phosphorylation and dephosphorylation of cellular proteins are central steps in transducing extracellular signals to the nucleus. Phosphorylated epitopes may serve as docking sites for the assembly of protein complexes or may alter the 3-dimensional protein structure thus modulating enzymatic activity or the ability to undergo protein-protein interactions. Antibodies directed against phosphorylated epitopes recognize the phosphorylated amino acid in the context of the surrounding amino acid sequence. Recognition is therefore dependent on 2 criteria: 1) phosphorylation and 2) the surrounding amino acid motif. If one of the two criteria is not fulfilled, the antibody will not detect the phosphorylation site. Since the amino acid sequence varies between different phosphorylation sites, certain proteins - though phosphorylated - may not be detected by the antibody. Phosphorylation patterns in a given cell extract may differ when probed with different antibodies due to sequence specificity.</p> <p>The Phosphothreonine Detection Kit contains 3 different phosphothreonine specific monoclonal antibodies.</p>



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Note: **This Phosphothreonine Detection Kit contains 3 different phosphothreonine specific monoclonal antibodies:**

AM00119PU-25 (Clone 1E11)  
AM00120PU-25 (Clone 4D11)  
AM00121PU-25 (Clone 14B3)

**This product contains a positive control for Immunoblot applications (for details see "Protocols").**

Protocol: **Positive Control: pSer / pThr Molecular Weight Marker**(Size 20 Blots)

**Format:** The pSer/pThr molecular weight marker contains rabbit muscle phosphoproteins isolated by Fe<sup>3+</sup>/IDA - affinity chromatography. Proteins are lyophilized from PBS/NaF/PEG/Sucrose/Bromophenolblue and Sodium Azide. After reconstitution the solution contains 0.09% Sodium Azide.

**Reconstitution:** Restore by addition of 200 µl H<sub>2</sub>O. After complete solubilization add 200 µl 2x SDS-PAGE sample buffer, mix and incubate at 90°C for 5 min.

**Application:** The pSer/pThr molecular weight marker is recommended for immunoblot applications.

Use 20 µl molecular weight marker per lane.

Note: Use BSA based blot incubation buffers. Milk, Casein and Blotto might interfere with antibody - antigen interaction.

**Storage:** Aliquote and keep frozen. Avoid repeated freezing and thawing.