Mouse anti cAMP Monoclonal Antibody

Alternate Names:
3’, 5’-Cyclic Adenosine Monophosphate (c-AMP)

ANTIGEN PREPARATION
A chemically linked 3’, 5’-Cyclic Adenosine Monophosphate (cAMP)

BACKGROUND
Cyclic adenosine monophosphate (cAMP) is an intracellular mediator that plays an important role in a variety of hormone signaling. It’s been known as an universal cytoplasmic second messenger in drug discovery due to the involvement of G-Protein Coupled Receptors (GPCR) signaling events where the receptors are activated by different ligands, such as neurotransmitters, hormones, ions, small molecules, peptides, etc.

PURIFICATION
The mouse monoclonal antibody is purified by protein A Affinity Purification.

SPECIFICITY
This antibody recognizes cAMP, not cross react with 5/-AMP, 5’-ADP, 5’-ATP or 3’, 5’-cGMP.

APPLICATIONS/SUGGESTED WORKING DILUTIONS

<table>
<thead>
<tr>
<th>Application</th>
<th>Working Dilution</th>
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</thead>
<tbody>
<tr>
<td>Western Blot</td>
<td>0.1-1 µg/ml</td>
</tr>
<tr>
<td>ELISA</td>
<td>0.01-0.1 µg/ml</td>
</tr>
<tr>
<td>Immunoprecipitation</td>
<td>Not tested</td>
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<tr>
<td>IHC</td>
<td>Not tested</td>
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<tr>
<td>Flow cytometry</td>
<td>Not tested</td>
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</tbody>
</table>

MOLECULAR WEIGHT: N/A

POSITIVE CONTROL: cAMP-Carrier protein

CELLULAR LOCATION: N/A

Optimal dilutions should be determined by researchers for the specific applications.

REFERENCES

ELISA Plot:
Adenosine-3’, 5’-cyclic AMP immobilized onto plates, followed by addition of stand cyclic AMP. The mouse anti c-AMP was added subsequently, and visualized by chromogenic substrate. Each sample was triplicate. IC50 was then calculated.