Leinco Technologies, Inc.
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# Anti-PolyHistidine — APC

## Monoclonal Antibody

### Product Information

**Product No.:** P308
**Clone:** AD1.1.10
**Isotype:** Mouse IgG1
**Storage:** 2° to 8°C

## Product Description

**Specificity:**
AD1.1.10 activity is directed against proteins and peptides containing the H-H-H-H-H-H (6His) motif.

**Antigen Distribution:**
The 6His motif is present in histidine tags.

**Background:**
AD1.1.10 recognizes proteins and peptides containing the polyhistidine tag (His-tag). The most common His-tag is the H-H-H-H-H-H (6x-His) motif, but His-tags can comprise up to 10 His residues. His-tags can be inserted into a target gene either by cloning the encoding DNA in frame into a His-tag containing vector or by using extended polymerase chain reaction primers that incorporate the motif. His-tags can be inserted at either the N or C terminal of target proteins. The most suitable location depends on the target protein's characteristics as well as the downstream experimental methods. A variety of purification and detection methods make use of His-tags. Applications include flow cytometry, ELISA, Western blot, dot blot, peptide array, immunohistochemistry, immunofluorescence, immunoprecipitation, immunocytochemistry, histidine tag (His-tag) insertion for epitope mapping (HisMAP), and chromatin immunoprecipitation (ChIP).

His-tags are less likely than other tags to affect functionality of the fusion protein due to their relatively small size. However, His residues exist in mammalian and insect systems, and therefore there may be some background binding, depending on the experimental conditions and/or the system used.

**Format:**
Allophycocyanin (APC)

**Immunogen:**
PAX6 transcription factor linked to histidine tag.

## Formulation

This Allophycocyanin (APC) conjugate is formulated in 0.01 M phosphate buffered saline (150 mM NaCl) PBS pH 7.4, 1% BSA and 0.09% sodium azide as a preservative.

## Storage and Stability

This Allophycocyanin (APC) conjugate is stable when stored at 2-8°C.

**DO NOT FREEZE**

## Applications

**Applications and Recommended Usage (Quality Tested By Leinco):**
**WB**[2, 4, 5, 6]
**FC**[1]

Products are for research use only. Not for use in diagnostic or therapeutic procedures.
410 Axminister Dr, St. Louis, MO 63026 (800) 538-1145 leincoglobal@leinco.com

**Other Applications Reported in Literature:**

**ELISA**[2]
**IP**[3]
**IF**[10]

## Country of Origin

USA

## References

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**5)** Lam M, Marsters SA, Ashkenazi A, et al. Elife. 9:e52291. 2020.
**6)** Moreland KT, Hong M, Lu W, et al. PLoS One. 9(4):e95333. 2014.
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**8)** Sasakura Y, Kanda K, Yoshimura-Suzuki T, et al. Anal Chem. 76(22):6521-6527. 2004.
**9)** Asano T, Takei J, Furusawa Y, et al. Monoclon Antib Immunodiagn Immunother. 40(6):243-249. 2021.
**10)** Calero-Cuenca FJ, Osorio DS, Carvalho-Marques S, et al. Curr Biol. 31(7):1521-1530.e8. 2021.

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