

# Product Datasheet

www.leinco.com



**Leinco  
Technologies, Inc.**

*excellence in early discovery research*

## AP Magenta 3 Component Immunohistochemical Substrate

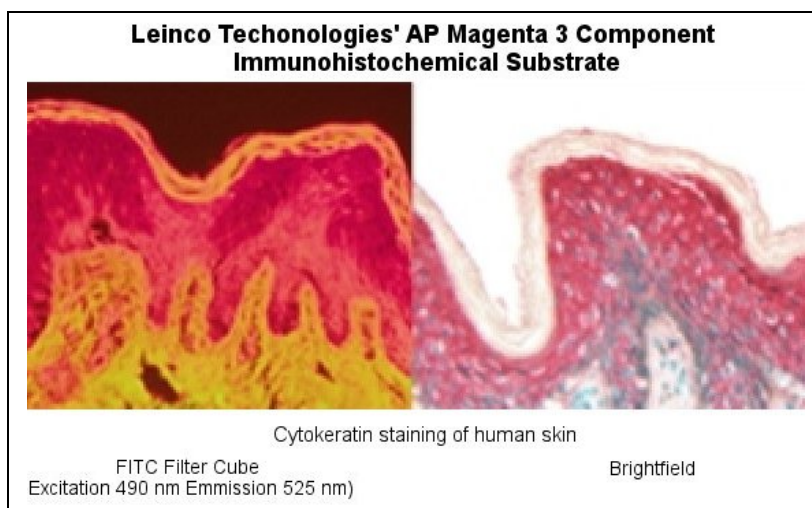
**Prod. No.:** A205

**Pkg. Size:** 100 ml, 500 ml, 1 L

**Storage:** 2 – 8°C *Detailed storage instructions below.*

### Description

Leinco's AP Magenta 3 Component Substrate is a precipitating substrate used with the enzyme alkaline phosphatase designed for immunohistochemical procedures. The TAC Buffer coupled with a substitute, naphthol, is enzymatically hydrolyzed. In the presence of hexazotized substrate, a fine magenta precipitate is produced at the sites of alkaline phosphatase activity.



### Components

- |   |   |                       |
|---|---|-----------------------|
| 1) TAC Buffer (Modified Gormori's Tris Azo-Coupling Buffer) | - | 1 x 100 ml or 1 x 1 L |
| 2) Initiator (Hexa-azonium salt initiator)                  | - | 1 x 2 ml or 1 x 20 ml |
| 3) Magenta Solution   | - | 1 x 2 ml or 1 x 20 ml |

### Directions for Product Use

- 1) Add 2 drops, or 100  $\mu$ l, of Magenta Solution into an appropriate sized test tube or collection vessel.
- 2) Add 2 drops, or 100  $\mu$ l, of Initiator Solution to the 100  $\mu$ l of Magenta Solution in step one. Gently mix and allow solution to sit for 3 to 10 minutes.
- 3) After the 3 to 5 minute incubation, add 5 ml of TAC Buffer and mix. **USE IMMEDIATELY! (NOTE: Reagent is stable for up to one hour. Some color and turbidity may develop over this time frame. However, this does not affect product performance.)**
- 4) Apply sufficient substrate solution to cover tissue section completely.
- 5) Incubate samples 10 minutes to 60 minutes, at room temperature, depending on individual preferences of staining intensity
- 6) For tissue sections, counterstain, if desired. Hematoxylin or Methyl Green is appropriate.
- 7) Dehydrate section through alcohol to xylene.

Sites of enzymatic activity vary from pink to magenta depending in antigenicity and length of staining.



*Products are for research use only. Not for use in diagnostic or therapeutic procedures.*

# Product Datasheet

[www.leinco.com](http://www.leinco.com)



**Leinco  
Technologies, Inc.**

*excellence in early discovery research*

## Storage and Stability

The high quality of this substrate can be preserved by storing at temperatures between 2 – 8°C. When properly stored, AP Magenta 3 Component Substrate is stable for a minimum of 18 months from the manufactured date.

## Reported Applications

AP Magenta 3 Component Substrate is suitable for use in immunohistochemistry assays

## Related Products

UltraAvidin™-Alk. Phos. ([Leinco Prod. No.: A108](#))

Streptavidin- Alk. Phos. ([Leinco Prod. No.: S208](#))

Goat Anti-Mouse IgG (H&L)- Alk. Phos. ([Leinco Prod. No.: M290](#))

Goat Anti-Human IgG (H&L)-Alk. Phos. ([Leinco Prod. No.: H627](#))

Goat Anti-Rat IgG (H&L)-Alk. Phos. ([Leinco Prod. No.: R1216](#))

Goat Anti-Rabbit IgG (H&L)-Alk. Phos. ([Leinco Prod. No.: R1191](#))

Goat Anti-Armenian Hamster IgG (H&L)-Alk. Phos. ([Leinco Prod. No.: A130](#))

[Immunohistochemistry Substrates](#)

## Trouble Shooting Guide

Problem	Cause	Solution
<b>Too much background signal observed</b>	Tissue section dried out at some point during the staining procedure	Prevent tissue sections from drying out during the staining procedure by performing all incubations in a humidified chamber
	AP Magenta Substrate was left on the tissue too long	Decrease the amount of time the AP Magenta Substrate is on the membrane
	Too much primary antibody used	Decrease the amount of primary antibody used and wash the tissue sections sufficiently after the primary antibody incubation
	Too much secondary antibody used	Decrease the amount of secondary antibody used and wash the tissue sections sufficiently after the secondary antibody incubation
<b>No signal is observed on the tissue section</b>	Pretreatment protocol is insufficient	Increase pretreatment time or investigate other pretreatment methods
	Low amounts of specific signal present	Expose the tissue to AP Magenta substrate for a longer period of time. Include positive control(s) during analysis
	Insufficient primary antibody used	Use more primary antibody
	Insufficient secondary antibody used	Use more secondary antibody
	Tissue is over fixed	Decrease incubation time in fixative to prevent over fixation

## Country of Origin

USA



*Products are for research use only. Not for use in diagnostic or therapeutic procedures.*