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| --- | --- |
| Clone | COL-1 |
| Source | Mouse Monoclonal |
| Cat # | PM086-6ml RTU PM086-3ml RTU  CM086-0.1ml Conc CM086-0.5mlConc HAM086-3ml RTU HAM086-6ml RTU |
| Regulatory Status | IVD |

CEA (Col-1)

**Intended Use:**

This antibody is intended for use to qualitatively identify CEA antigen by light microscopy in formalin fixed, paraffin embedded tissue sections using immunohistochemical detection methodology. Interpretation of any positive or negative staining must be complemented with the evaluation of proper controls and must be made within the context of the patient’s clinical history and other diagnostic tests. A qualified pathologist must perform evaluation of the test.

**Summary and Explanation:**

Carcinoembryonic Antigen (CEA) is found in several adenocarcinomas, such as colon, lung, breast, stomach and pancreas. Malignant mesothelioma is usually negative for CEA.

The antibody is a useful tool for the identification of colon carcinomas, and for the distinction of mesothelioma from adenocarcinoma when used with a panel of antibodies (e.g. with Cytokeratin, Calretinin, etc.)

**Immunogen:**BALB/C mice were injected with extract of colon carcinoma cells.

**Isotype:** IgG2a

**Reagent Provided:   
 Concentrated format:** Antibody to CEA is diluted in antibody diluent, with 1% bovine serum   
 albumin (BSA) and 0.05% sodium azide (NaN3). Recommended dilutions: 1:50 –   
 1:100.The antibody dilution and protocol may vary depending on the specimen   
 preparation and specific application. Optimal conditions should be   
 determined by individual laboratory.

**Pre-diluted format:** PathnSitu ready to use antibodies are pre tittered to optimal staining   
 conditions. Further dilution may loose the activity and may yield to sub   
 optimal staining.

**Storage Recommendations:** Store at 2°-8°C. Do not use after expiration date provided on the vial.

**Staining Recommendations:   
 Antigen Retrieval Solution:** Use **CitrateBuffer(PathnSitu Cat # PS007)** as antigen retrieval solution   
 Heat Retrieval Method: Retrieve sections under steam pressure for 15   
 min using PathnSitu’s MERS (Multi Epitope Retrieval System) then allow   
 solution to cool for 10 minutes then transfer tissue sections/slides to   
 distilled water.

**Primary Antibody:**  Cover the tissue sections with primary antibody and incubate for 30   
 min at room temperature when used PathnSitu PolyExcel Detection   
 System.

**Detection System:** Refer to PathnSitu PolyExcel detection system protocol or manufacturer’s detection kit staining protocol when used other vendor detection system.

**Cellular Localization:** Cytoplasm and Membrane

**Positive Control:** Colon Cancer

**Troubleshooting:** Follow the antibody specific protocol recommendations according to data sheet provided. If unusual results occur, contact PathnSitu Technical Support at 040-2701 5544 or techsupport@pathnsitu.com.

**Limitations and Warranty:** There are no warranties, expressed or implied, which extend beyond this   
 description. PathnSitu is not liable for property damage, personal injury, or   
 economic loss caused by this product.

**Bibliography:**  1. Muraro R, et al. Cancer Res. 1985 Nov;45(11 Pt 2):5769-80   
 2. Shi ZR, et al. J Histochem Cytochem. 1994 Sep;42(9):1215-9   
 3. Sheibani K, et al. Hum Pathol. 1992 Feb;23(2):107-16