Rabbit anti-Carcino Embryonic Antigen (CEA) Polyclonal Antibody
(Concentrate)

Catalog No.: P3012 1ml
P3012-2 0.2ml

Intended Use and Background:
Rabbit anti-CEA antibody is intended for detection of carcinoembryonic antigen (CEA) of human origin by immunohistochemistry. Carcinoembryonic antigen (CEA) is a glycoprotein involved in cell adhesion. It is normally produced during fetal development and then re-expressed in increased amount in colorectal, gastric, pancreatic, lung and breast carcinomas. CEA measurement is mainly used as a tumor marker to identify recurrences after surgical resection. Antibodies to CEA are commonly used in identifying the origin of various metastatic adenocarcinomas and in distinguishing pulmonary adenocarcinomas (60 to 70% are CEA+) from pleural mesotheliomas (rarely or weakly CEA+).

Components:
Rabbit anti-CEA antibody is total immunoglobulin IgG purified from rabbit. It is stored in PBS buffer pH 7.4 with 1% BSA and 0.05% sodium azide.

<table>
<thead>
<tr>
<th>Host species:</th>
<th>Rabbit</th>
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<tbody>
<tr>
<td>Isotype:</td>
<td>Total immunoglobulin IgG</td>
</tr>
<tr>
<td>Immunogen:</td>
<td>Human CEA purified from colon carcinoma</td>
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<tr>
<td>Reacts with:</td>
<td>Human, others not tested</td>
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<td>0.2 ml</td>
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Positive Control: Human Colon Carcinoma

Pretreatment required: Not required

Cellular Localization: Luminal membrane and cytoplasmic

Application: immunohistochemistry (IHC).

Recommended Protocol:
For concentrate antibody, the working dilution for formalin-fixed paraffin-embedded human tissue section is from 1:100-200 depending on the detection system used. Prediluted antibody is used directly without dilution. The optimal dilution needs to be determined by the investigator.

Manual staining procedure:
1. Deparaffinize slides.
2. Submerge slides in peroxidase quenching solution for 10 minutes and rinse with PBS 3 times, 2 minutes each.
3. Apply serum blocking solution (optional if use polymer detection system)
4. Apply primary antibody and incubate for 30-60 minutes at room temperature and rinse with PBS 3 times, 2 minutes each.
5. Apply secondary antibody conjugate and incubate according to the data sheet of detection system. Rinse with PBS 3 times, 2 minutes each.
6. Apply enzyme conjugate and incubate according to the data sheet of detection system. Rinse with PBS 3 times, 2 minutes each.
7. Apply chromogen and incubate 5-10 minutes and rinse with PBS.

Precaution:
Ware gloves and take other necessary laboratory safety procedure.

Storage: Store at 2-8°C.
Remarks: For research use only. Not for diagnostic or therapeutic use.