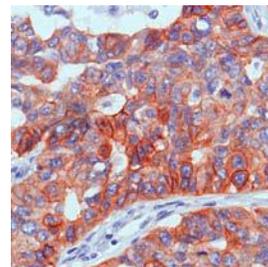


## Rabbit Anti-Human Epidermal Growth Factor Receptor (EGFR) Monoclonal Antibody (Clone SP84)

- CATALOG #:**
- M3840** 0.1 ml rabbit monoclonal antibody purified by protein A/G in PBS/1% BSA buffer pH 7.6 with less than 0.1% sodium azide.
  - M3844** 1 ml rabbit monoclonal antibody purified by protein A/G in PBS/1% BSA buffer pH 7.6 with less than 0.1% sodium azide.
  - M3841** 7 ml pre-diluted rabbit monoclonal antibody purified by protein A/G in TBS/1% BSA buffer pH 7.6 with less than 0.1% sodium azide. (For IHC only).



Human lung squamous cell carcinoma stained with anti-EGFR antibody



Western Blot analysis of A431 egf-treated cell lysate with EGFR antibody

- INTENDED USE:** For Research Use Only. Not for use in diagnostic procedures.
- CLONE:** SP84
- IMMUNOGEN:** Synthetic peptide corresponding to C-terminus of human EGFR protein.
- IG ISOTYPE:** Rabbit IgG
- EPITOPE:** C-terminus
- MOLECULAR WEIGHT:** 175kDa
- SPECIES REACTIVITY:** Human (tested). Others not tested.
- DESCRIPTION:** Protein kinases are enzymes that transfer a phosphate group from a phosphate donor onto an acceptor amino acid in a substrate protein. By this basic mechanism, protein kinases mediate most of the signal transduction in eukaryotic cells, regulating cellular metabolism, transcription, cell cycle progression, cytoskeletal rearrangement and cell movement, apoptosis, and differentiation. The protein kinase family is one of the largest families of proteins in eukaryotes, classified in 8 major groups based on sequence comparison of their tyrosine (PTK) or serine/threonine (STK) kinase catalytic domains. Epidermal Growth Factor Receptor (EGFR) is the prototype member of the type 1 receptor tyrosine kinases. EGFR overexpression is observed in tumors of the head and neck, brain, bladder, stomach, breast, lung, endometrium, cervix, vulva, ovary, esophagus, stomach and in squamous cell carcinoma.
- APPLICATIONS:** Immunohistochemistry (IHC) and Western Blotting
- IHC PROCEDURE:**
- Specimen Preparation:** Formalin-fixed, paraffin-embedded tissues are suitable for use with this primary antibody.
  - Deparaffinization:** Deparaffinize slides using xylene or xylene alternative and graded alcohols.
  - Antibody Dilution:** If using the concentrate format of this product, dilute the antibody 1:100. The dilutions are estimates; actual results may differ because of variability in methods and protocols.
  - Antigen Retrieval:** Boil tissue section in 10mM citrate buffer, pH 6.0 for 10 min followed by cooling at RT for 20 min.
  - Primary Antibody Incubation:** Incubate for 30 minutes at RT.
  - Slide Washing:** Slides must be washed in between steps. Rinse slides with PBS/0.05% Tween.
  - Visualization:** Detect the antibody as instructed by the instructions provided with the visualization system.
- WESTERN BLOTTING:** Recommended starting protocol: Dilute the antibody 1:25. Incubate for 1 hour at room temperature. The dilution is an estimate; actual results may differ because of variability in methods and protocols. Optimal dilution and procedure should be determined by the end user.
- POSITIVE CONTROL:** Lung squamous cell carcinoma
- CELLULAR LOCALIZATION:** Membrane



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**STORAGE & STABILITY**

Store at 2-8°C. Do not freeze. The user must validate any other storage conditions. When properly stored, the reagent is stable to the date indicated on the label. Do not use the reagent beyond the expiration date.

There are no definitive signs to indicate instability of this product; therefore, positive and negative controls should be tested simultaneously with unknown specimens.

**WARNINGS & PRECAUTIONS:**

1. Avoid contact of reagents with eyes and mucous membranes. If reagents come into contact with sensitive areas, wash with copious amounts of water.
2. This product is harmful if swallowed.
3. Consult local or state authorities with regard to recommended method of disposal.
4. Avoid microbial contamination of reagents.

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