



# Mouse (monoclonal) Anti-Human Epidermal Growth Factor Receptor (EGFR)

## Antibody Cocktail PRODUCT ANALYSIS SHEET

<b>Catalog Number:</b>	AHR5062
<b>Lot Number:</b>	See product label
<b>Expiration Date:</b>	See Product Label.
<b>Quantity:</b>	100 µg/0.5 mL
<b>Clone Numbers:</b>	Cocktail R19/48 (111.6 + 199.12 + F4 + 11E8)
<b>Isotypes:</b>	IgG1 + IgG2a
<b>Form of Antibody:</b>	Purified immunoglobulins in 10 mM phosphate buffered saline, pH 7.4, with 0.2% BSA.
<b>Preservation:</b>	0.09% sodium azide (Caution: sodium azide is a poisonous and hazardous substance. Handle with care and dispose of properly.)
<b>Purification:</b>	Purified from ascites by Protein A and Protein G affinity chromatography.
<b>Immunogens:</b>	Purified extracellular and cytoplasmic domains of human recombinant EGFR protein.
<b>Myeloma/Fusion Partners:</b>	Immunized BALB/c mouse splenocytes were fused with NSO or NS1 mouse myeloma cells.
<b>Specificity:</b>	<p>This mixture of four monoclonal antibodies binds to proteins with <math>M_r=170</math> kDa and 145 kDa, corresponding to the intact and vIII variant of EGFR. The epitopes for these antibodies map to the extracellular and cytoplasmic domains of EGFR.</p> <p>EGFR is the prototype member of the type 1 receptor tyrosine kinases. EGFR is encoded by the cellular oncogene <i>c-erbB-1</i>. EGFR has an extracellular ligand binding domain, a single transmembrane region, and cytoplasmic domain which is composed of a tyrosine kinase domain and a carboxyterminal domain. The carboxyterminal domain contains at least four tyrosine autophosphorylation sites.</p> <p>EGFR over-expression in tumors indicates poor prognosis. EGFR over-expression is observed in tumors of the head and neck, brain, bladder, stomach, breast, lung, endometrium, cervix, vulva, ovary, esophagus, and stomach, and in squamous cell carcinoma.</p>
<b>Species Reactivity:</b>	Human. Does not cross-react with mouse or rat. Other species were not tested.
<b>Applications:</b>	This antibody cocktail produces excellent results in immunostaining, Western blot analysis and is also suitable for use in immunoprecipitation.
<b>Suggested Working Dilutions:</b>	The suggested concentration for use in Western blotting is 1 - 2 µg/mL. The optimal concentration should be determined for each specific application.
<b>Recommended Positive Control:</b>	A431 cells.

**For Research Use Only. CAUTION: Not for human or animal therapeutic or diagnostic use.**

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PI AHR5062

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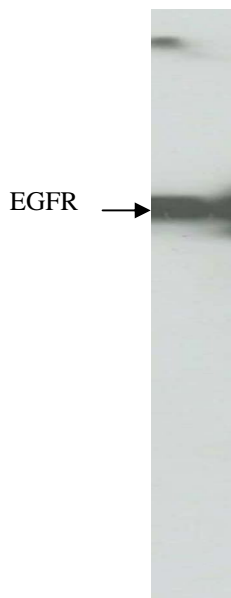
**Storage:** Store at 2 to 8°C.

**References:**

Wiley, L.M., et al. (1995) Epidermal growth factor receptor function in early mammalian development. *BioEssays* 17:839-846.

Rajkumar, T., et al. (1994) The type I growth factor receptors in human breast cancer. *Breast Cancer Res. Treat.* 29:3-9.

Henrik Daub, F., et al. (1996) Role of transactivation of the EGFR in signaling by the G-protein-coupled receptors. *Nature* 379:557-560.



Extract of A431 cells was resolved on SDS-PAGE under reducing conditions and transferred to PVDF membrane. Membrane was immunoblotted with EGFR antibody cocktail (Invitrogen cat. # AHR5062) at 0.4 µg/mL. The membrane was incubated with primary antibodies for 1 hour, followed by incubation with the secondary goat F(ab')<sub>2</sub> anti-mouse IgG alkaline phosphatase conjugated antibody (Invitrogen cat. # AMI4405) at 1:5000 dilution. The signal was revealed by incubating the membrane in CDP substrate, using the WesternStar method (Tropix) and exposing membrane to Kodak BioMax film.

Explanation of symbols

Symbol	Description	Symbol	Description
	Catalogue Number		Batch code
	Research Use Only		In vitro diagnostic medical device
	Use by		Temperature limitation
	Manufacturer		European Community authorised representative
	Without, does not contain		With, contains
	Protect from light		Consult accompanying documents
	Directs the user to consult instructions for use (IFU), accompanying the product.		

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