



# Mouse (monoclonal) Anti-Human Epidermal Growth Factor Receptor (EGFR) ` Ab-11

## PRODUCT ANALYSIS SHEET

<b>Catalog Number:</b>	AHR5072
<b>Lot Number:</b>	See product label
<b>Quantity:</b>	100 µg/0.5 mL
<b>Clone Number:</b>	199.12
<b>Isotype:</b>	IgG2a
<b>Form of Antibody:</b>	Purified immunoglobulin 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 affinity chromatography.
<b>Immunogen:</b>	The extracellular domain of human recombinant EGFR protein, purified.
<b>Myeloma/Fusion Partners:</b>	Immunized BALB/c mouse splenocytes were fused with NSO mouse myeloma cells.
<b>Specificity:</b>	<p>This antibody binds to proteins with <math>M_r=170</math> kDa and 145 kDa, corresponding to the intact and vIII variant of EGFR. This antibody shows no cross-reactivity with <i>c-erbB-2</i>, <i>c-erbB-3</i>, or <i>c-erbB-4</i>. The epitope for this antibody maps to the extracellular domain of EGFR which is localized to the cell membrane.</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. Other species were not tested.
<b>Applications:</b>	This antibody is suitable for use in immunoprecipitation and Western blot analysis of the extracellular domain of EGFR. This antibody does not inhibit EGF binding to its receptor.
<b>Suggested Working Dilutions:</b>	The optimal concentration should be determined for each specific application.

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PI AHR5072

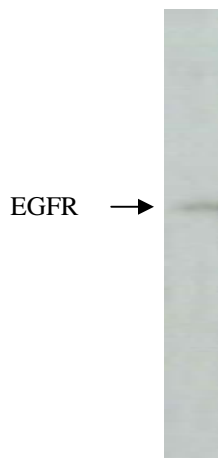
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**Recommended Positive Control:** A431 cells.  
**Storage:** Store at 2-8°C.

**Expiration Date:** Expires one year from date of receipt when stored as instructed.

**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 (Invitrogen cat. # AHR5072) at 0.4 µg/mL. The membrane was incubated with primary antibody for 1 hour, followed by incubation with the secondary goat F(ab')<sub>2</sub> anti-mouse IgG alkaline phosphatase conjugated antibody (Invitrogen cat. # ALI4405) 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		<i>In vitro</i> 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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