



Qty: 100 µg/400 µL

## Rabbit anti-RTK (Pan)

For Research Use Only

Catalog No. 36-1300

Lot No. See product label

## Rabbit anti- RTK (Pan)

### FORM

This polyclonal antibody is supplied as a 400 µL aliquot at a concentration of 0.25 mg/ml in phosphate buffered saline (pH 7.4) containing 0.1% sodium azide. The antibody is epitope-affinity-purified from rabbit antiserum.

PAD: ZMD.264

### IMMUNOGEN

Three synthetic peptides corresponding to the catalytic domain VI of the receptor tyrosine kinase conserved region.

### SPECIFICITY

This antibody is specific for the catalytic domain VI of receptor tyrosine kinases. On Western blots, this antibody identified a strong band at ~170 kDa.

### REACTIVITY

Reactivity has been confirmed with human A431 epidermoid carcinoma cell lysates. This antibody yielded intense cytoplasmic and membrane staining in formalin-fixed, paraffin-embedded breast cancer tissue sections.

Sample	Western Blotting	Immunohistochemistry (FFPE)	ELISA
Human	+++	++	ND

(Excellent +++, Good++, Poor +, No reactivity 0, Not applicable N/A, Not Determined ND)

### USAGE

Working concentrations for specific applications should be determined by the investigator. Appropriate concentrations will be affected by several factors, including secondary antibody affinity, antigen concentration, sensitivity of detection method, temperature and length of incubations, etc. The suitability of this antibody for applications other than those listed below has not been determined. The following concentration ranges are recommended starting points for this product.

**Western Blotting:** 1-3 µg/mL  
**Immunohistochemistry (FFPE):** 2-5 µg/mL  
**ELISA:** 0.1-1.0 µg/mL

### STORAGE

Store at 2-8°C for up to one month. Store at -20°C for long-term storage. Avoid repeated freezing and thawing.

(cont'd)

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PI361300

(Rev 10/08) DCC-08-1089

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## BACKGROUND

Receptor tyrosine kinases (RTKs) form a protein superfamily which has been identified in all metazoans, from sponge to humans. RTKs belong to the wider tyrosine kinase (TK) family, which divides into two main groups: cytoplasmic TK (PTK) and receptor TK (RTK). The specific function of RTK derives from their tyrosine kinase activity that is induced intracellularly by the extracellular binding of a cognate ligand.

Receptor tyrosine kinases (RTKs) are family of cell surface proteins that are responsible for intracellular signal transduction.<sup>1</sup> Over-expression and /or structural alteration of RTK members is often linked to human cancers. Tumor cells are known to use the RTK transduction pathway to achieve tumor growth, angiogenesis and metastasis.<sup>1</sup> RTK and Ras onco-protein are examples of critical signaling proteins that, due to their roles in the initiation, growth, and progression of cancer cells, may also served as rational therapeutic targets.<sup>2</sup>

## REFERENCES

1. Brunelleschi S, et al. *Curr Pharm Des* 8:1959-1972, 2002.
2. Hao D, et al. *Cancer Invest*, 20:387-404, 2002.

## RELATED PRODUCTS

<b>Product</b>	<b>Clone/PAD*</b>	<b>Cat. No.</b>
Mouse anti-EGFr	31G7	28-0005
Mouse anti-EGFr vIII	4H8A2	32-6400
Rabbit anti-Ephrin-A1	ZMD.39	34-3300
Rabbit anti-Ephrin-A2	ZMD.40	34-3400
Rabbit anti-Ephrin-A4	ZMD.56	34-3700
Rabbit anti-Ephrin-B1	ZMD.41	34-3500
Rabbit anti-Ephrin-B3	ZMD.42	34-3600
Mouse anti-HER2	TAB250	28-0003
Mouse anti-HER4	HFR1	18-7329
Rabbit anti-VEGF Receptor-1(Soluble)	ZMD.263	36-1100
Rabbit anti-VEGF Receptor-2	ZMD.262	36-0900
Rabbit anti-VEGF Receptor-3 (Mid)	ZMD.250	36-0100
Rabbit anti-VEGF Receptor-3 (C-term)	ZMD.261	36-0200
Mouse anti-FGFR	VBS-7	13-3100
Rabbit anti-EphA2 Receptor	ZMD.224	34-7400
Rabbit anti-EphA3 Receptor	ZMD.235	34-8500
Rabbit anti-EphA4 Receptor	ZMD.229	34-7900
Mouse anti-EphB4 Receptor	3D7F8	35-2900
Rabbit anti-Chicken EphB5 Receptor	ZMD.225	34-7500
Mouse anti-Chicken EphB5 Receptor	5G6H8	35-3000
Protein A	Sepharose® 4B	10-1041
rec-Protein G	Sepharose® 4B	10-1241

\*PAD: Polyclonal Antibody Designation

<b>Conjugate</b>	<b>ZyMAX™ Goat x Rabbit IgG (H+L)</b>	<b>ZyMAX™ Goat x Mouse IgG (H+L)</b>
Purified	81-6100	81-6500
FITC	81-6111	81-6511
TRITC	81-6114	81-6514
Cy™3	81-6115	81-6515
Cy™5	81-6116	81-6516
HRP	81-6120	81-6520
AP	81-6122	81-6522
Biotin	81-6140	81-6540

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