DATASHEET

IGF1 Receptor (Phospho-Y1165/Y1166) Rabbit Polyclonal Antibody

CAT. NO. APA07122

KEY FEATURES

Target	IGF1 Receptor (Phospho-Y1165/Y1166)	Source / Host	Rabbit
Reactivity	Human, Mouse, Rat, Bovine, Chicken, Zebrafish	Clonality	Polyclonal
Applications	WB, IHC	Conjugation	Unconjugated
Form / Buffer	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.	Storage	at-20°C

BACKGROUND

Receptor tyrosine kinase which mediates actions of insulin-like growth factor 1 (IGF1). Binds IGF1 with high affinity and IGF2 and insulin (INS) with a lower affinity. The activated IGF1R is involved in cell growth and survival control. IGF1R is crucial for tumor transformation and survival of malignant cell. Ligand binding activates the receptor kinase, leading to receptor autophosphorylation, and tyrosines phosphorylation of multiple substrates, that function as signaling adapter proteins including, the insulin-receptor substrates (IRS1/2), Shc and 14-3-3 proteins. Phosphorylation of IRSs proteins lead to the activation of two main signaling pathways: the PI3K-AKT/PKB pathway and the Ras-MAPK pathway.

APPLICATION

To ensure optimal assay performance, AREX recommends conducting reagent titration tailored to each testing system for optimal detection results.

WB	1:500 - 1:1000
IHC	1:50 - 1:100

*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

PRODUCT OVERVIEW

Description	Rabbit polyclonal antibody to IGF1 Receptor (Phospho-Y1165/Y1166)
Specificity	Recognizes endogenous levels of IGF1 Receptor protein only when phosphorylated at Y1165/Y1166.
Antibody Type	Primary antibody
Immunogen	KLH-conjugated synthetic phosphopeptide corresponding to residues surrounding Y1165/Y1166 of human IGF1 Receptor protein. The exact sequence is proprietary.
Purification	The antibody was purified by immunogen affinity chromatography.
Molecular Weight	Predicted: 154 kD; Observed: 95; 200 kD
Form/Buffer	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Alternative Names	Insulin-like growth factor 1 receptor; Insulin-like growth factor I receptor; IGF-I receptor; CD221
Gene Symbol	IGF1R
Entrez Gene	3480(Human); 16001(Mouse); 25718(Rat)
SwissProt	P08069(Human); Q60751(Mouse); P24062(Rat)

*AREX continuously optimizes our products. Webpage content may not reflect the latest updates. For inquiries, please contact info@arexbio.com or your local distributor.

*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

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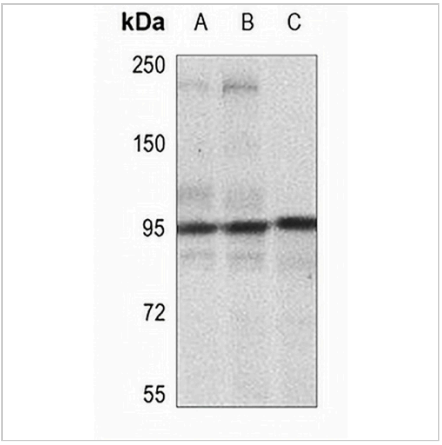
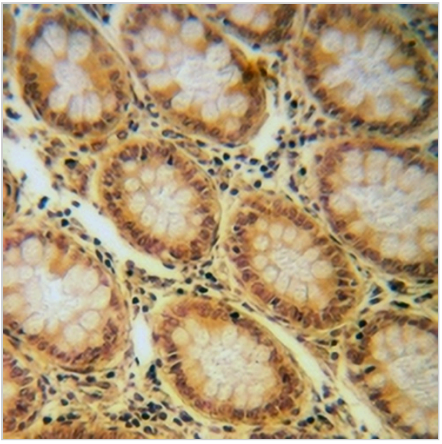
DATA



Western blot analysis of IGF1 Receptor (Phospho-Y1165/Y1166) expression in MCF7 (A), MCF7-insulin-15min (B), A2780 (C) whole cell lysates. (Predicted band size: 154 kD; Observed band size: 95; 200 kD)



Immunohistochemical analysis of IGF1 Receptor (Phospho-Y1165/Y1166) staining in human colorectal cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

STORAGE

Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

NOTE

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.