

Datasheet for ABIN969207
anti-IGF1R antibody (AA 1101-1367)[Go to Product page](#)

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Overview

Quantity:	100 µL
Target:	IGF1R
Binding Specificity:	AA 1101-1367
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This IGF1R antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC)

Product Details

Immunogen:	Purified recombinant fragment of IGF1R-Beta (AA: 1101-1367) expressed in E. coli.
Clone:	3G5C1
Isotype:	IgG2a
Purification:	purified

Target Details

Target:	IGF1R
Alternative Name:	IGF1R (IGF1R Products)
Background:	Description: IGF1R(insulin-like growth factor 1 receptor), a transmembrane receptor tyrosine kinase, is widely expressed in many cell types within fetal and postnatal tissues, and in many

Target Details

cell lines. Upon binding to its ligands, IGF-I and IGF-II, receptor autophosphorylation occurs. The triple tyrosine cluster within the kinase domain (Tyr1131, Tyr1135 and Tyr1136) is the earliest major site of autophosphorylation. Phosphorylation of these three tyrosine residues is necessary for kinase activation. Insulin receptors (IRs) share significant similarity with IGF1 receptors in both structure and function, including an equivalent triple tyrosine cluster within the activation loop of the kinase domain (Tyr1146, Tyr1150 and Tyr1151). Tyrosine autophosphorylation of insulin receptor is one of the earliest cellular responses to insulin stimulation. Autophosphorylation begins with phosphorylation of Tyr1146 and either Tyr1150 or Tyr1151. Full kinase activation requires the triple tyrosine phosphorylation.

Aliases: IGF1R

Molecular Weight:	96 kDa
Gene ID:	3480
HGNC:	3480
Pathways:	RTK Signaling , Regulation of Hormone Metabolic Process , Regulation of Hormone Biosynthetic Process , Autophagy

Application Details

Application Notes:	ELISA: 1:10000, WB: 1:500 - 1:2000, IHC: 1:200 - 1:1000
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	Ascitic fluid containing 0.03 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C/-20 °C
Storage Comment:	4°C, -20°C for long term storage

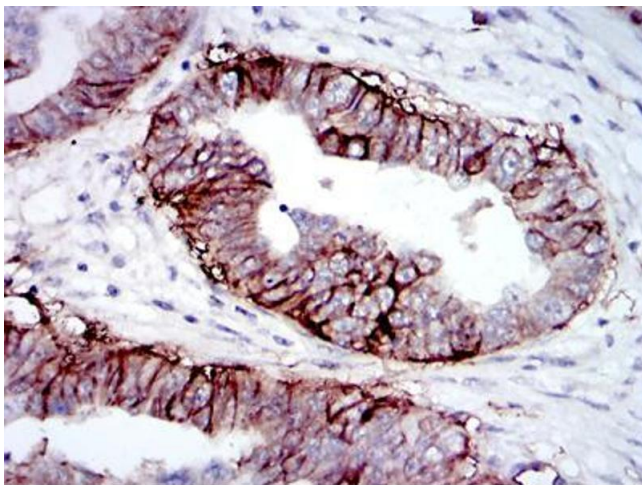
Publications

Product cited in:	Zhu, Jiang, Thompson: "Mechanisms by which energy restriction inhibits rat mammary
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carcinogenesis: in vivo effects of corticosterone on cell cycle machinery in mammary carcinomas." in: **Carcinogenesis**, Vol. 24, Issue 7, pp. 1225-31, (2003) ([PubMed](#)).

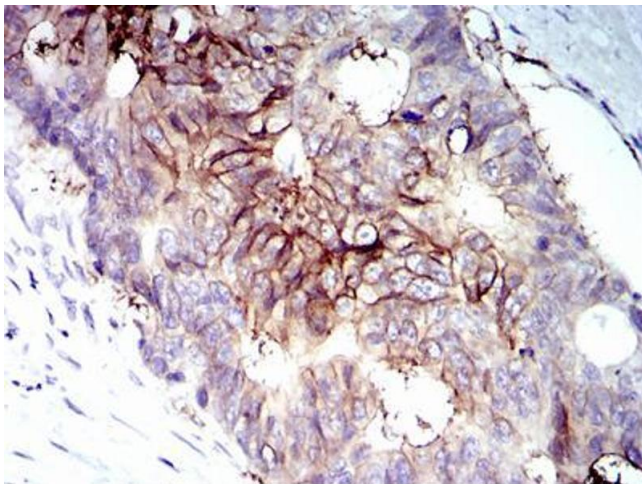
Ling, Maile, Clemmons et al.: "Tyrosine phosphorylation of the beta3-subunit of the alphaVbeta3 integrin is required for embrane association of the tyrosine phosphatase SHP-2 and its further recruitment to the insulin-like growth ..." in: **Molecular endocrinology (Baltimore, Md.)**, Vol. 17, Issue 9, pp. 1824-33, (2003) ([PubMed](#)).

Images



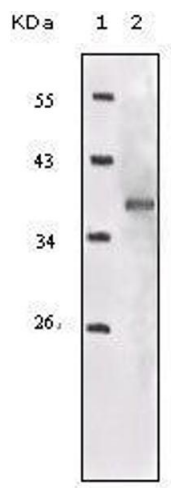
Immunohistochemistry

Image 1. Immunohistochemical analysis of paraffin-embedded ovarian cancer tissues using IGF1R-Beta mouse mAb with DAB staining.



Immunohistochemistry

Image 2. Immunohistochemical analysis of paraffin-embedded rectum cancer tissues using IGF1R-Beta mouse mAb with DAB staining.



Western Blotting

Image 3. Western blot analysis using IGF1R-Beta mouse mAb against truncated IGF1R recombinant protein.