IGF1R / CD221 Antibody

Mouse Monoclonal Antibody [Clone IGF1R/4667]

Catalog No	Format	Size
3480-MSM1-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
3480-MSM1-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
3480-MSM1-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

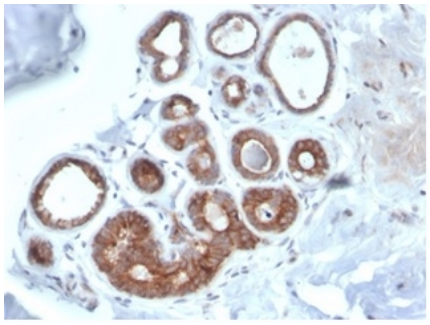
Applications	Tested Dillution	Note
Flow Cytometry (Flow)	1-2ug/million cells	
Immunofluorescence (IF)	1-3ug/ml	

Product Details

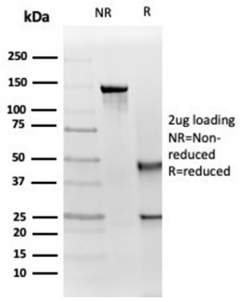
Clone	IGF1R/4667
Gene Name	IGF1R
Immunogen	Recombinant fragment (around aa550-750) of human IGF1R protein (exact sequence is proprietary)
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG2c / Kappa
Mol. Weight of Antigen	130kDa (IGF-1R); 97kDa (IGF-1R); 200kDa (pro-IGF-1R)
Cellular Localization	Cell membrane
Species Reactivity	Human
Positive Control	Human breast carcinoma or colon carcinoma.

**Optimal dilution for a specific application should be determined.*

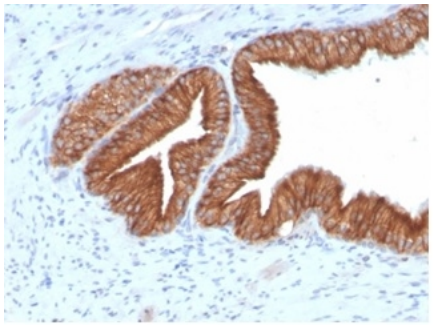
Product Images for IGF1R / CD221 Antibody



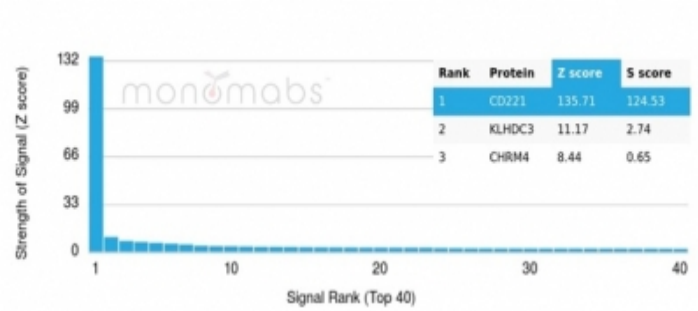
Formalin-fixed, paraffin-embedded human breast carcinoma stained with IGF-1R / CD221 Mouse Monoclonal Antibody (IGF1R/4667).



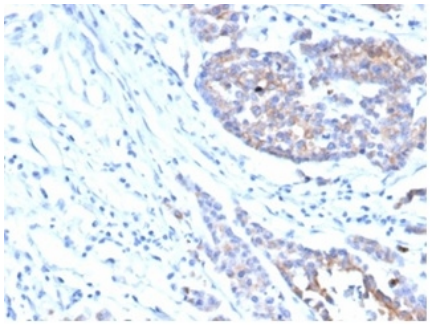
Formalin-fixed, paraffin-embedded human prostate carcinoma stained with IGF-1R / CD221 Mouse Monoclonal Antibody (IGF1R/4667).



SDS-PAGE Analysis of Purified IGF-1R / CD221 Mouse Monoclonal Antibody (IGF1R/4667). Confirmation of Purity and Integrity of Antibody.



Analysis of Protein Array containing more than 19,000 full-length human proteinsusing CD221 / IGF1R Mouse Monoclonal Antibody (IGF1R/4667). Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProtTM array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProtTM are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.



Formalin-fixed, paraffin-embedded human colon carcinoma stained with IGF-1R / CD221 Mouse Monoclonal Antibody (IGF1R/4667).

Specificity & Comments

Receptor tyrosine kinases (RTKs) are transmembrane molecular scaffolds that influence cellular processes including the cell cycle, cell migration, cell metabolism, cell survival, proliferation and differentiation. Insulin-like growth factor-I receptor (IGF-IR) is an RTK that stimulates growth in many different cell types, blocks apoptosis, acts as an intermediate of many growth hormone responses and may stimulate the growth of some types of cancer. The IGF-IR cognate ligand Insulin-like growth factor-I (IGF-I) promotes association of IGF-IR with Shc, GRB2 and Sos 1, which initiates Ras and ERK kinase cascades, thereby modifying transcription factor activity, such as activation of the Elk transcription factors. The modular phosphotyrosine binding (PTB) domains of Insulin receptor substrate (IRS)-1 and -2 can associate with active IGF-IR and initiate phosphatidylinositol 3-kinase-dependent downstream signals. The human IGF-IR gene maps to chromosome 15q26.3 and encodes a 1,376 amino acid precursor protein that cleaves into ? and ? subunits. The human IGF-IIR gene maps to chromosome 6q26 and encodes a 2,491 amino acid transmembrane protein.

Supplied As

200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

Storage and Stability

Antibody with azide - store at 2 to 8 °C. Antibody without azide - store at -20 to -80 °C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

Research Areas

AKT Signaling, Breast Cancer, Cardiovascular, Signal Transduction

Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis.There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.