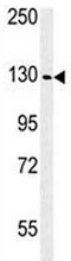
IGF1R Antibody (F50634)

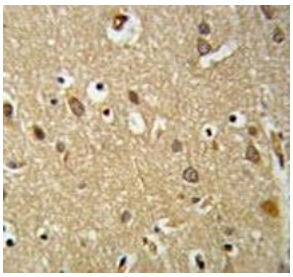
Catalog No.	Formulation	Size
F50634-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F50634-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

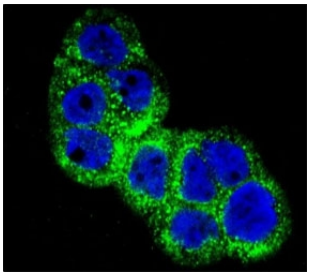
Availability	1-3 business days
Species Reactivity	Human
Predicted Reactivity	Mouse, Rat
Format	Purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Purified
UniProt	P08069
Applications	Western Blot : 1:1000 IHC (Paraffin) : 1:50-1:100 Flow Cytometry : 1:10-1:50 Immunofluorescence : 1:10-1:50
Limitations	This IGF1R antibody is available for research use only.



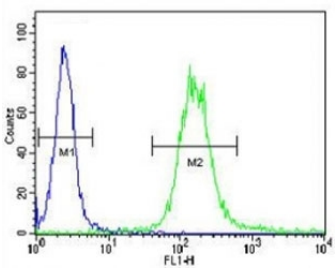
Western blot analysis of IGF1R antibody and WiDr lysate. Predicted molecular weight: ~200 kDa (pro), 120-130 kDa (alpha), 90-97 kDa (beta).



IGF1R antibody IHC analysis in formalin fixed and paraffin embedded brain tissue.



Confocal immunofluorescent analysis of IGF1R antibody with WiDr cells followed by Alexa Fluor 488-conjugated goat anti-rabbit lgG (green). DAPI was used as a nuclear counterstain (blue).



IGF1R antibody flow cytometric analysis of WiDr cells (green) compared to a negative control (blue). FITC-conjugated goat-anti-rabbit secondary Ab was used for the analysis.

Description

IGF1R is a 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 IGF1 receptor is involved in cell growth and survival control. It 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. The result of activating the MAPK pathway is increased cellular proliferation, whereas activating the PI3K pathway inhibits apoptosis and stimulates protein synthesis.

Application Notes

Titration of the IGF1R antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

A portion of amino acids 51-77 from the human protein was used as the immunogen for this IGF1R antibody.

Storage

Aliquot the IGF1R antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.