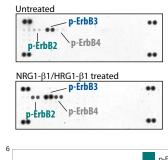
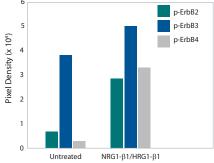
Receptor Tyrosine Kinases

Receptor Tyrosine Kinases (RTKs) contain an extracellular ligand-binding domain connected through a single transmembrane helix to a cytoplasmic kinase domain. In addition to the conserved protein tyrosine kinase core, an RTK's cytoplasmic domain contains regulatory regions subject to tyrosine autophosphorylation. These autophosphorylation sites provide a mechanism for the recognition of Src homology 2 (SH2) and phosphotyrosine binding (PTB) domains present on a variety of signaling proteins. Among these are components of the Raf/MEK/ ERK and PI 3-kinase/PDK1/Akt signaling cascades.

Receptor Tyrosine Kinase Products									
ANALYTE	ANTIBODIES	ELISAs/ASSAYS	PROTEINS		ANALYTE	ANTIBODIES	ELISAs/ASSAYS	PROTEINS	
ALK/CD246	н				M-CSF R	Н	н	Н	
AxI	НМ	НМ	НМ		Mer	НМ		НМ	
DDR1/DDR2	н				MSP R/Ron	НМ		НМ	
EGF R	НМ	н	Н		MuSK	R			
Eph	Please see website for our complete product line.				PDGF R α , R β	НМ	н	НМ	
ErbB2, B3, B4	Н		Н		Ret	НМ		НМ	
FGF R1	н		Н		ROR1, ROR2	Н			
FGF R2, FGF R3	НМ	Н	НМ		SCF R/c-kit	НМ	н	H	
FGF R4	НМ		н		Tie-1	н		н	
Flt-3	НМ		НМ		Tie-2	HMZ	НМ	HMZ	
HGF R	НМ	НМ	НМ		TrkA	HR	н	HR	
IGF-I R	Н	Н	Н		TrkB, C	НМ		НМ	
IGF-II R	н		Н		VEGF R1, R2, R3	НМ	НМ	HM	
INSRR	н				TrkC	НМ		НМ	
Insulin R/CD220	н	Н	Н		Key: H Human M Mou	se R Rat 7 7eh	rafish		
					key. In numan minouse in nut 2 Zebidiisii				

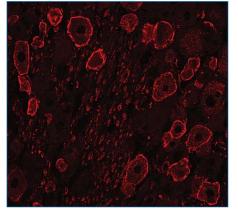
Receptor Tyrosine Kinase Array





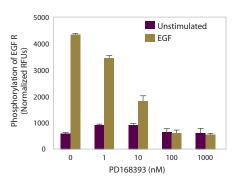
Relative phosphorylation was measured simultaneously in 42 RTKs using the Proteome Profiler[™] RTK Array (Catalog # ARY001). MDA-MB-453 cells (human breast cancer) were left untreated or treated with recombinant human NRG1- β 1/HRG1- β 1 (Catalog # 396-HB).

TrKA in Rat DRG Neurons



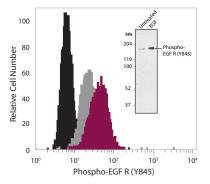
Detection of TrkA receptor in rat DRG neurons using R&D Systems goat anti-rat TrkA receptor affinity-purified antibody (Catalog # AF1056). Tissues were stained using donkey anti-goat secondary antibodies conjugated to Rhodamine Red[™] X (red). TrkA receptor labeling is confined to the plasma membrane of DRG neurons.

Phospho-EGF R Cell-Based Assay



Phosphorylation of EGF R (Y1068) was determined in whole cells using the human Phospho-EGF R (Y1068) Cell-Based ELISA Kit (Catalog # KCB1095) and normalized to total EGF R in the same well. A431 cells (epidermoid carcinoma) were pretreated with PD168393 (tyrosine kinase inhibitor), and then incubated with or without EGF (Catalog # 236-EG). Values represent mean ± the range of duplicate determinations.

Phospho-EGF R by Flow Cytometry



A431 cells were untreated (gray histogram) or treated with EGF (red histogram). Phosphorylated EGF R was detected by flow cytometry using carboxyfluorescein (CFS)conjugated anti-phospho-EGF R (Y845) antibody (Catalog # IC3394F). Cells were also stained with an isotype control antibody (Catalog # IC105F; black histogram). The inset shows Western blot detection of phosphorylated EGF R using anti-human phospho-EGF R (Y845) polyclonal antibody (Catalog # AF3394).

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