

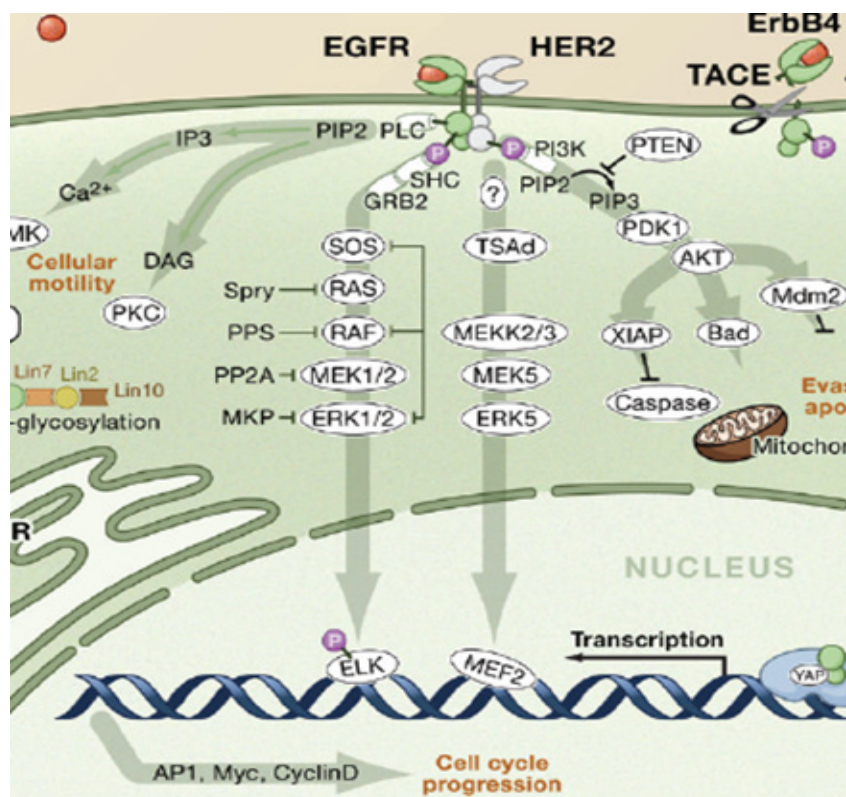
EGF Receptor Signal Transduction Pathway

The epidermal growth factor (EGF) family of receptor tyrosine kinases (RTKs) consist of four receptors, EGFR (erb1), HER2 (erb2), HER3 (erb3) and HER4 (erb4). Members of the EGF-R family contain a cytoplasmic tyrosine kinase domain, a single transmembrane domain, and an extracellular domain that is involved in ligand binding and receptor dimerization. Binding of an extracellular ligand or as a result of environmental stimuli, such as ultraviolet light, will induce EGFR to form homo- or heterodimers with other family members which activates its intracellular tyrosine kinase domain and autophosphorylate its C-terminal tyrosine residues. Transduction by activated EGFR leads to downstream effects on proteins such as phosphatidyl 3-kinase (PI3-K), Phospholipase C- γ (PLC- γ 1), Akt, Ras, Raf and mitogen-activated protein kinase (MAPK). These entities are associated with cell proliferation, motility and survival.

Due to their involvement in various forms of cancers, EGFR/RTKs and its downstream signaling cascades have become prominent targets for therapeutic intervention. BioVision offers numerous Antibodies, Recombinant Proteins, Small Molecular Inhibitors and ELISA Assay Kits to study this signaling pathway.

Product Highlights:

- Simple and Easy-To-Use ELISA Kits
- Tested and Validated Antibodies
- Highly Pure and Active Recombinant Proteins
- Small Molecule Inhibitors Targeting Different Components of the EGF Signaling Pathway
- Highly Potent, Selective and Many Inhibitor Options to Choose From



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The full list of products related to EGFR Receptor Signaling Pathway that BioVision has to offer is listed below:

Antibodies

Product Name	Cat. No.	Size
Anti-EGFR (Cetuximab), Chimeric Antibody	A1047	100 µg
Anti-EGFR (Matuzumab), Human IgG1 Antibody	A1090	200 µg
Anti-EGFR (Panitumumab), humanized antibody	A1050	100 µg
Anti-HER2 (c-erbB-2), Rabbit Monoclonal Antibody	A1134	50 µl
Calcineurin A Antibody	3075	30 µg, 100 µg
Calcineurin A Blocking Peptide	3075BP	50 µg
EGF Antibody	5022	30 µg, 100 µg
EGFR Antibody	3782	100 µl
ErbB4/HER4 (His Tagged), Human Recombinant	7773	5 µg
HER2, Active	7762	5 µg, 100 µg
HER2/ErbB2 Antibody	3783	100 µl
Phospho-EGFR (Tyr1197) polyclonal Antibody	A1034	100 µg
TACE Antibody	3222	100 µg
TACE Antibody	3222R	30 µg, 100 µg
TGF-alpha Antibody	5339	30 µg, 100 µg
TGF-beta Receptor I Antibody	5636R	30 µg, 100 µg
TGF-beta Receptor II Antibody	5639R	30 µg, 100 µg
TGF-beta Receptor III Antibody	5642	100 µg
TGF-beta1 Antibody	5559	100 µg
TGF-beta2 Antibody	5340	30 µg, 100 µg
TGF-beta2 Antibody	5343R	30 µg, 100 µg
TGF-beta3 Antibody	5344R	30 µg, 100 µg

Recombinant Proteins

Product Name	Cat. No.	Size
EGF Receptor, human recombinant	7135	10 µg, 50 µg
EGF, murine recombinant	4023	100 µg, 500 µg 1 mg, 5 mg
EGF, rat recombinant	4024	20 µg, 100 µg, 1 mg
Human CellExp™ EGFR/ErbB1, human recombinant	7396	10 µg
Human CellExp™ EGFRvIII, human recombinant	P1082	10 µg
Epidermal Growth Factor (EGF), human recombinant	4022	100 µg, 500 µg 1 mg, 5 mg
Human CellExp™ ErbB1/EGFR, mouse recombinant	7402	10 µg
Human CellExp™ ErbB2 / HER2 / CD340, human recombinant	7397	10 µg, 50 µg

Recombinant Proteins

Product Name	Cat. No.	Size
Human CellExp™ ErbB3/HER3, human recombinant	7400	10 µg, 50 µg
Human CellExp™ ErbB4/HER4, human recombinant	7401	10 µg, 50 µg
HB-EGF, human recombinant	4266	10 µg, 50 µg, 1 mg
HB-EGF, mouse recombinant	4267	10 µg, 50 µg, 1 mg
HER2, Active	7762	10 µg, 50 µg
Heregulin-β2 (HRG2β), Human Recombinant	4730	10 µg, 50 µg, 1 mg
Human CellExp™ Latent TGF-beta 1 / TGFB1, human Recombinant	P1088	10 µg
TACE (TNF-α converting enzyme), human recombinant	7607	20 µg, 100 µg, 1 mg
TGF-alpha, human recombinant	4339	20 µg, 100 µg, 1 mg
Human CellExp™ TGF-beta 1, Human Recombinant	6479	10 µg, 50 µg
Human CellExp™ TGF-beta 2, Human Recombinant	6480	10 µg, 50 µg
Human CellExp™ TGF-beta 3, Human Recombinant	6481	10 µg, 50 µg
TGF-beta1, human recombinant (CHO cells)	4342	5 µg, 50 µg, 500 µg
TGF-beta2, human recombinant (E. coli)	4340	5 µg, 50 µg, 1 mg
TGF-beta2, human recombinant (Insect)	4343-5	5 µg
TGF-beta3, human recombinant	4344	5 µg, 50 µg, 500 µg
TGF-β1, human recombinant (E. Coli)	7843	10 µg, 50 µg, 1 mg

Assay Kits

Product Name	Cat. No.	Size
EGF (human) ELISA Kit	K4022	100 assays
EGF (mouse) ELISA Kit	K4023	100 assays
EGF (rat) ELISA Kit	K4024	100 assays
TACE (human) ELISA Kit	K4754	100 assays
TACE Inhibitor Screening Assay Kit (Fluorometric)	K366	100 assays
TGF-alpha (human) ELISA Kit	K4339	100 assays
TGF-beta1 (human) ELISA Kit	K4342	100 assays
TGF-beta1 (mouse) ELISA Kit	K4343	100 assays
TGF-beta1 (rat) ELISA Kit	K4344	100 assays

EGFR Inhibitors

Product Name	Cat. No.	Size	CAS #
AEE-788	9658	1 mg, 5 mg	497839-62-0
AG 1478	1800	5 mg, 25 mg	175178-82-2
AZ-5104	9441	10 mg, 50 mg	1421373-98-9
AZD-3759	9609	5 mg, 25 mg	1626387-80-1
AZD-8931	9659	5 mg, 25 mg	848942-61-0
AZD-9291	2674	5 mg, 25 mg	1421373-65-0
BIBW2992 (Tovok)	1616	1 mg, 5 mg	439081-18-2
BIBX-1382	9463	5 mg, 25 mg	196612-93-8
BMS-599626	1614	1 mg, 5 mg	873837-23-1
Canertinib (CI-1033, PD-183805)	1617	5 mg, 50 mg	289499-45-2
CL-387785	2826	10 mg, 50 mg	194423-06-8
CO-1686 (Rociletinib)	2794	5 mg, 25 mg	1374640-70-6
CUDC-101	1966	5 mg, 25 mg	1012054-59-9
EAI-045	B1274	5 mg, 25 mg	1942114-09-1
PathwayReady™ EGFR Signaling Inhibitor Panel	K863	14 inhibitors	Multiple Inhibitors
DiscoveryPak™ EGFR Tyrosine Kinase Inhibitor Set	K858	5 inhibitors	Multiple Inhibitors
Erlotinib, Free Base	2048	100 mg, 1 g	183321-74-6
Erlotinib, Hydrochloride Salt	1588	100 mg, 1 g	183319-69-9
Ganetespi (STA-9090)	9459	5 mg, 25 mg	888216-25-9
Gefitinib	1589	5 mg, 25 mg	184475-35-2
EZSolution™ Gefitinib	2030	5 mg	184475-35-2
Genistein	1533	10 mg, 100 mg	446-72-0
Lapatinib Ditosylate (Tykerb, Tyverb, GW-572016)	1624	25 mg, 100 mg	388082-78-8
EZSolution™ Lapatinib Ditosylate	2807	10 mg	388082-78-8
Lapatinib, Free base	2138	25 mg, 100 mg	231277-92-2
Naquotinib	B1317	5 mg, 25 mg	448232-80-1
Neratinib	2023	5 mg, 25 mg	698387-09-6
Olmutinib	B1218	5 mg, 25 mg	1353550-13-6
PD 153035 Hydrochloride	1656	2 mg	153436-54-5
Pelitinib (EKB-569)	2676	5 mg, 25 mg	257933-82-7
PF299804	2678	5 mg, 25 mg	1110813-31-4
TAK 165	1951	5 mg, 25 mg	366017-09-6
Tyrphostin AG 490	1570	5 mg	133550-30-8
UNC2881	2837	5 mg, 25 mg	1493764-08-1
Vandetanib	1751	100 mg, 25 mg	37762-06-4
Varlitinib	2656	5 mg, 25 mg	845272-21-1
WHI-P154	2659	5 mg, 25 mg	211555-04-3
WZ4002	2461	5 mg, 25 mg	1213269-23-8

We are constantly adding new products in this field to provide a complete product portfolio for your research. Please visit our website, www.biovision.com for the most up-to-date details on all the products that we have in our catalog.

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