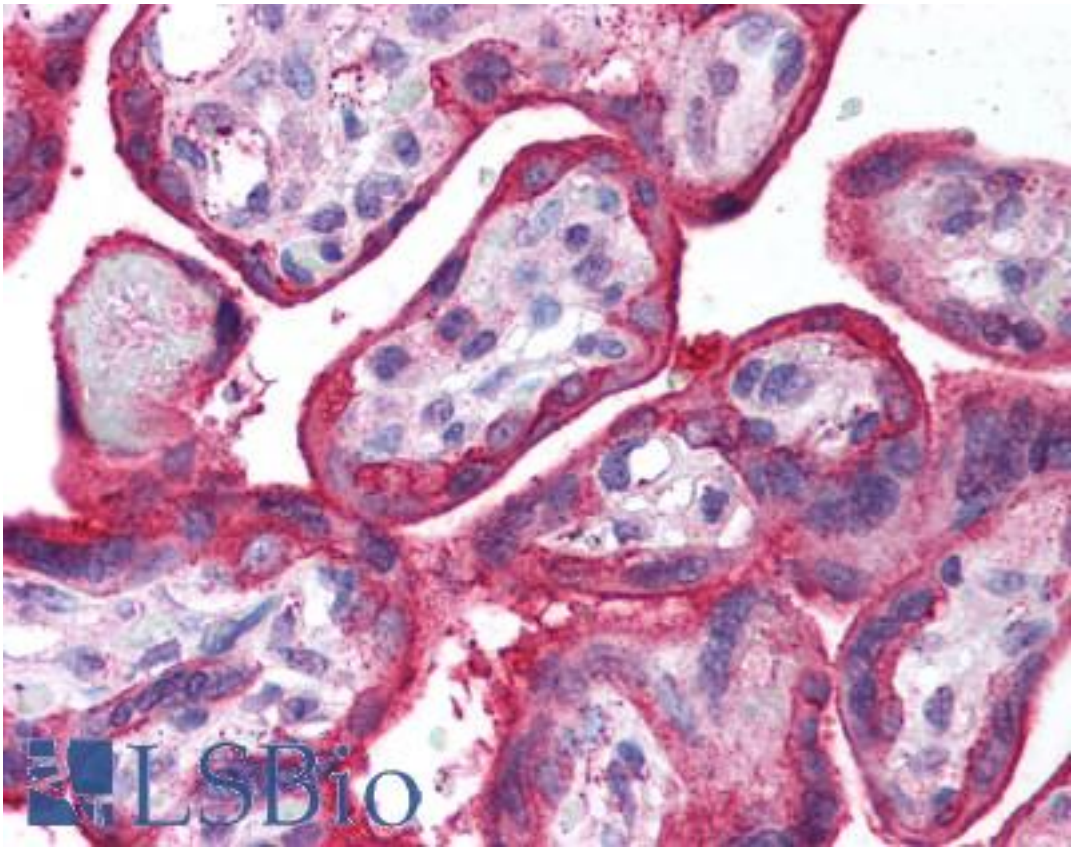
LSBio
LifeSpan BioSciences, Inc.

EGFR Rabbit anti-Human Polyclonal (aa1166-1180) Antibody - LS-B648 - LSBio

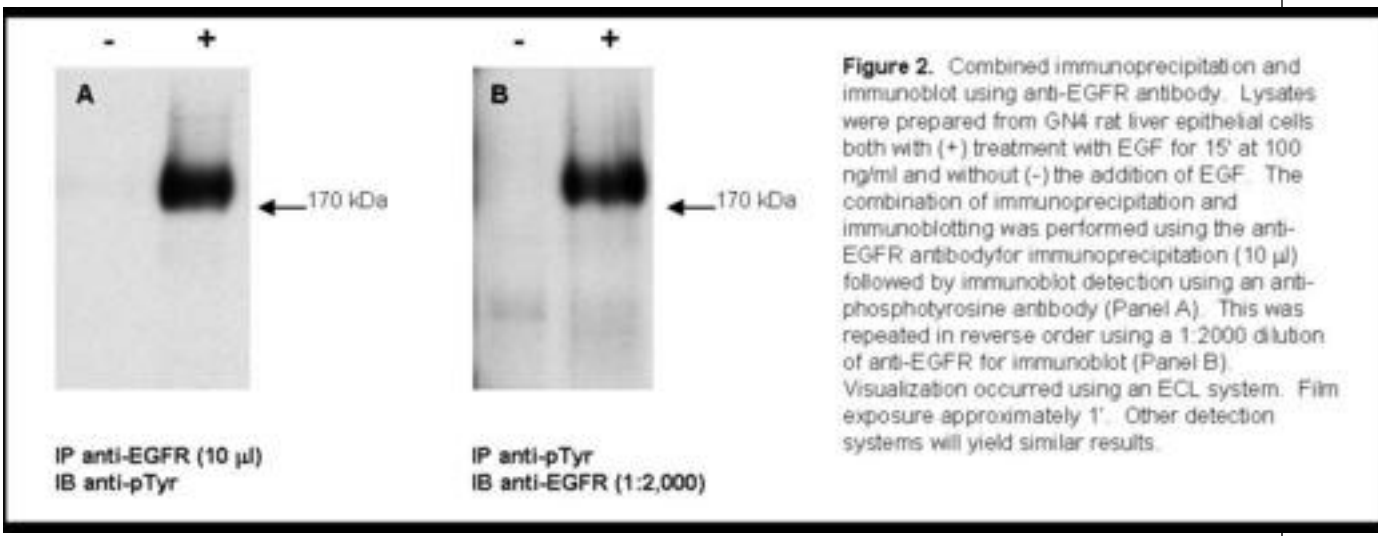
CatalogID:	LS-B648
Validation:	This antibody replaces catalog number LS-C18794. It has been validated for use in the following assays: IHC.
Target:	epidermal growth factor receptor (EGFR)
Synonyms:	EGFR Antibody, EGFf receptor Antibody, ERBB Antibody, ERBB1 Antibody, MENA Antibody, Panitumumab Antibody, PIG61 Antibody, Proto-oncogene c-ErbB -1 Antibody, V-erb-b homolog Antibody, EGF-R Antibody, HER1 Antibody
Family / Subfamily:	Protein Kinase / EGF Receptor
Host	EGFR antibody was produced in Rabbit
Clonality:	Polyclonal
Immunogen Species:	EGFR antibody was raised against Human
Specificity:	Peptide synthesized using conventional technology. The sequence of the epitope is: NH2-C-S-L-D-N-P-D-Y-Q-Q-D-F-F-P-K-E-COOH and corresponds to amino acids 1166-1180 of the EGFR molecule. This maps to a region near the carboxy-terminus which is identical in human, mouse and rat EGFR. The amino terminal cysteine was synthesized to facilitate carrier coupling.
Epitope:	aa1166-1180
Reactivity:	Human, Mouse, Rat
Purification:	Sterile filtered
Presentation:	Serum.
Recommended Storage:	+4°C or -20°C, Avoid repeated freezing and thawing.
Usage Summary:	Immunohistochemistry: LS-B648 was validated for use in immunohistochemistry on a panel of 21 formalin-fixed, paraffin-embedded (FFPE) human tissues after heat induced antigen retrieval in pH 6.0 citrate buffer. After incubation with the primary antibody, slides were incubated with biotinylated secondary antibody, followed by alkaline phosphatase-streptavidin and chromogen. The stained slides were evaluated by a pathologist to confirm staining specificity. The optimal working concentration for LS-B648 was determined to be 1:500.
Uses:	IHC - Paraffin (1:500), Western blot (1:1000 - 1:10000), Immunoprecipitation, ELISA (1:10000 - 1:50000) (Optimal dilution to be determined by the researcher)
Size:	50 µl
Concentration:	85 mg/ml

Immunohistochemistry Image:



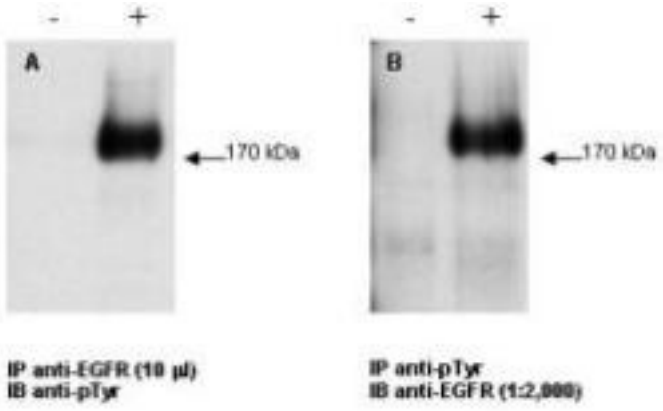
Anti-EGFR antibody IHC of human placenta. Immunohistochemistry of formalin-fixed, paraffin -embedded tissue after heat-induced antigen retrieval. Antibody LS-B648 dilution 1:500.

Western Blot Image:



Combined immunoprecipitation and immunoblot using anti-EGFR antibody. Lysates were prepared from GN4 rat liver epithelial cells both with (+) treatment with EGF for 15' at 100 ng/ml and without (-) the addition of EGF. The combination of immunoprecipitation and immunoblotting was performed using the anti-EGFR antibody for immunoprecipitation (10 ul) followed by immunoblot detection using an anti-phosphotyrosine antibody (Panel A). This was repeated in reverse order using a 1:2000 dilution of

Western Blot Image:

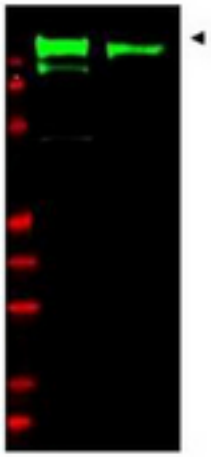


Immunoprecipitation/Western Blot - Anti-EGFR Antibody. Combined immunoprecipitation and Western blot of anti-EGFR antibody. Lysates were prepared from GN4 rat liver epithelial cells both with (+) EGF treatment for 15 at 100 ng/ml and without (-) the addition of EGF. The combination of immunoprecipitation and western blotting was performed using the anti-EGFR antibody for immunoprecipitation (10 ul) followed by western blot detection using an anti-phosphotyrosine antibody (Panel A). This was repeated in reverse order using a 1:2000 dilution of anti-EGFR for western blot (Panel B). Visualization occurred using an ECL system. Film exposure was approximately 1. Other detection systems will yield similar results.

Western Blot Image:

Western blot of Affinity Purified anti-EGFR antibody shows detection of a band at ~170 kDa corresponding to human EGFR present in unstimulated (lane 1) and EGF (50 ng/ml for 15 min) stimulated (lane 2) A431 whole cell lysates (arrowhead). Approximately 30 mg of lysate was separated on a 4-20% Tris-Glycine gel by SDS-PAGE and transferred onto nitrocellulose. After blocking the membrane was probed with the primary antibody diluted to 1:1,000.

Western Blot Image:



Western Blot - Anti-EGFR Antibody. Western blot of anti-EGFR antibody shows detection of a band at ~170 kD corresponding to human EGFR present in unstimulated (lane 1) and EGF (50 ng/ml for 15 min) stimulated (lane 2) A431 whole cell lysates (arrowhead). Approximately 30 ug of lysate was resolved on a 4-20% Tris-Glycine gel by SDS-PAGE and transferred onto nitrocellulose. After blocking, the membrane was probed with the primary antibody diluted to 1:1000. Reaction occurred overnight at 4C followed by washes and reaction with a 1:10000 dilution of IRDye 800 conjugated Gt-a-Rabbit IgG (H&L) MX10 (for 45 min at room temperature (800 nm channel, green). Molecular weight estimation was made by comparison to prestained MW markers in lane M (700 nm channel, red).

Requested From:	Japan

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