

Datasheet for ABIN7077614 **anti-EGFR antibody (Biotin)**

1 Image



[Go to Product page](#)

Overview

Quantity:	100 µg
Target:	EGFR
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This EGFR antibody is conjugated to Biotin
Application:	Flow Cytometry (FACS)

Product Details

Purpose:	Anti-EGFR Biotin Antibody
Immunogen:	Purified EGFR from A431 cells
Clone:	528
Isotype:	IgG2a, kappa
Characteristics:	The clone 528, a mouse monoclonal antibody, specifically reacts with an epitope of the ~170 kDa extracellular protein domain of human epidermal growth factor receptor or commonly known as EGFR. Physiologically EGFR is expressed in the skin, gastrointestinal system, kidney, and other normal tissues as well as aberrantly over expresses in epithelial cancer cells of lung, pancreas, colon, breast, and on the head and neck squamous cell. EGFR signaling is activated upon binding one of its ligands including epidermal growth factor (EGF), transforming growth factor α (TGF α), Amphiregulin, and heparin binding-EGF (HB-EGF). Upon activation, EGFR becomes an active homodimer from an inactive monomeric form, resulting in several

Product Details

downstream signal transduction cascades including the MAPK, Akt and JNK pathways, leading to DNA synthesis and cell proliferation closely linked with cancer pathogenesis. The 528 antibody has been reported to block EGF binding to its receptor and inhibits A431 tumor formation in nude mice. Therefore, the anti-EGFR monoclonal antibody based anti-cancer immunotherapy has strong clinical potential against various epithelial solid malignant tumors.

Purification: Purified

Purity: >95 %

Grade: GMP Grade

Target Details

Target: EGFR

Alternative Name: EGFR ([EGFR Products](#))

Gene ID: 1956

UniProt: [P00533](#)

Pathways: [NF-kappaB Signaling](#), [RTK Signaling](#), [Fc-epsilon Receptor Signaling Pathway](#), [EGFR Signaling Pathway](#), [Neurotrophin Signaling Pathway](#), [Stem Cell Maintenance](#), [Hepatitis C](#), [Positive Regulation of Response to DNA Damage Stimulus](#), [Interaction of EGFR with phospholipase C-gamma](#), [Thromboxane A2 Receptor Signaling](#), [EGFR Downregulation](#), [S100 Proteins](#)

Application Details

Application Notes: Optimal working dilution should be determined by the investigator.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: PBS pH 7.2, 0.09 % sodium azide

Preservative: Sodium azide

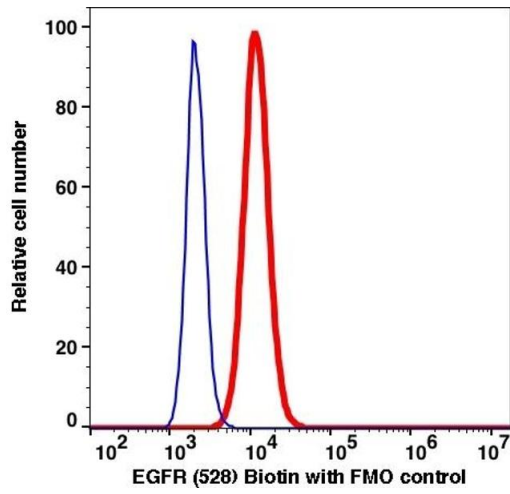
Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: 4 °C

Handling

Storage Comment: 2-8°C, Conjugated antibodies should never be frozen.

Images



Flow Cytometry

Image 1.