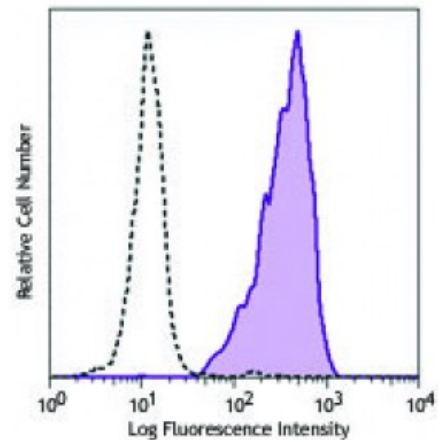


**PerCP/Cy5.5 anti-human EGFR**

<b>Catalog # / Size:</b>	2364565 / 25 tests 2364570 / 100 tests
<b>Clone:</b>	AY13
<b>Isotype:</b>	Mouse IgG1, $\kappa$
<b>Immunogen:</b>	Non-small cell lung cancer (NSCLC) cell line NCI-H322
<b>Reactivity:</b>	Human
<b>Preparation:</b>	The antibody was purified by affinity chromatography and conjugated with PerCP/Cy5.5 under optimal conditions. The solution is free of unconjugated PerCP/Cy5.5 and unconjugated antibody.
<b>Formulation:</b>	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).
<b>Concentration:</b>	Lot-specific



HeLa cells were stained with EGFR (clone AY13) PerCP/Cy5.5 (filled histogram) or mouse IgG1,  $\kappa$  PerCP/Cy5.5 isotype control (open histogram).

**Applications:**

<b>Applications:</b>	Flow Cytometry
<b>Recommended Usage:</b>	Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is 5 microL per million cells or 5 microL per 100 microL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.
	* PerCP/Cy5.5 has a maximum absorption of 482 nm and a maximum emission of 690 nm.
<b>Application References:</b>	1. Yamaguchi M, <i>et al.</i> 2009. The 15th Annual Meeting Japan Society of Gene Therapy. p1056. Abstract 92.

**Description:** Epidermal growth factor receptor (EGFR) is a transmembrane glycoprotein and member of the protein kinase superfamily that regulates cell growth and differentiation. EGFR binds EGF, TGF- $\alpha$ , amphiregulin,  $\beta$ cellulin, heparin-binding EGF-like growth factor, GP30, and vaccinia virus growth factor - all members of the EGF family. Ligand binding induces EGFR dimerization and autophosphorylation, initiating the MAPK, Akt, and JNK signaling pathways. EGFR is expressed by epithelial and endothelial cells and is frequently expressed by epithelial carcinomas.

**Antigen References:**

1. da Cunha Santos G, *et al.* 2011. *Annu. Rev. Pathol.* 6:49.
2. Gusterson BA and Hunter KD. 2009. *Lancet Oncol.* 10:522.
3. Mano M and Humblet Y. 2008. *Nat. Clin. Pract. Oncol.* 5:415.
4. Pao W and Chm