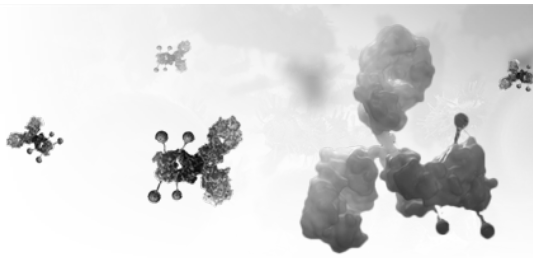

Hi-Puri™ Mouse Anti-Human EGFR Monoclonal antibody, clone GC1118 (DMAB-CDB25937)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	Structural analysis of the EGFR–GC1118 crystal complex revealed that GC1118 recognizes linear, discrete N-terminal epitopes of domain III of EGFR, critical for EGF binding but not overlapping with those of other EGFR-targeted antibodies. GC1118 exhibited superior inhibitory activity against high-affinity EGFR ligands in terms of EGFR binding, triggering EGFR signaling, and proliferation compared with cetuximab and panitumumab.
Specificity	GC1118 binds to a protruding loop in domain III of EGFR (amino acids R353-H359).
Target	Human EGFR
Immunogen	Human EGFR
Isotype	IgG
Source/Host	Mouse
Species Reactivity	Human
Clone	GC1118
Purification	>90% determined by SDS-PAGE
Conjugate	Unconjugated
Applications	Suitable for use in IB, FC, Crystallography. Each laboratory should determine an optimum working titer for use in its particular application. Other applications have not been tested but use in such assays should not necessarily be excluded.
Format	Liquid

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Concentration	lot specific
Size	200 μg, 1 mg
Buffer	PBS (endotoxin < 1EU/mg, lower endotoxin levels may also be offered upon request)
Preservative	None
Storage	Short term at 2-8°C; long term storage in aliquots at -20°C; avoid freeze/thaw cycles.
Ship	Dry ice

BACKGROUND

Introduction	EGFR (Epidermal growth factor receptor, HER1, ErbB1) is encoded by the EGFR gene located on chromosome 7 in humans. EGFR belongs to the HER/ERbB family of proteins that includes three other receptor tyrosine kinases, ERbB2, ERbB3, ERbB4. EGFR is a transmembrane receptor and binding of its cognate ligands such as EGF (Epidermal Growth Factor) and TGF alpha (Transforming Growth Factor alpha) to the extracellular domain leads to EGFR dimerization followed by autophosphorylation of the tyrosine residues in the cytoplasmic domain.
Keywords	EGFR; epidermal growth factor receptor; ERBB; HER1; mENA; ERBB1; PIG61

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