

Technical Data Sheet

Purified Mouse Anti-Human c-erbB-2

Product Information

Material Number:	554300
Size:	100 µg
Concentration:	0.5 mg/ml
Clone:	9G6
Immunogen:	Recombinant human c-erbB-2
Isotype:	Mouse IgG1
Reactivity:	QC Testing: Human
Storage Buffer:	Aqueous buffered solution containing ≤0.09% sodium azide.

Description

C-erbB-2 (also known as HER2/neu), a 185 kDa transmembrane glycoprotein, is a member of the type 1 growth factor receptor subfamily which also includes c-erbB-3, c-erbB-4 and the epidermal growth factor receptor (EGFR) (also known as c-erbB-1). Members of this receptor subfamily mediate the proliferation and differentiation of normal cells. They have a common structure consisting of an extracellular domain, a transmembrane region, and a cytoplasmic sequence. The extracellular regions contain two cysteine-rich domains, and the intracellular regions have sequence homology to known tyrosine kinases. C-erbB-3 reactivity has been detected in proximal kidney tubules, mucosal epithelium in the gastrointestinal tract, and squamous epithelium in skin. Most other normal adult tissue show little or no reactivity with antibodies against c-erbB-2, including breast, ovary, spleen, liver, bone marrow, prostate, adrenal, and lung. However, c-erbB-2 is overexpressed in many human breast, stomach, ovary and bladder carcinomas. EGFR, c-erbB-3 and c-erbB-4 are also overexpressed in various human tumor cells, and it is thought that aberrant activation of type 1 growth factor kinase activities may contribute to tumor progression. Clone 9G6 recognizes human c-erbB-2. Recombinant human c-erbB-2 was used as immunogen.

Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

Store undiluted at 4° C.

Application Notes

Application

Immunohistochemistry-formalin (antigen retrieval required)	Routinely Tested
Immunohistochemistry-frozen	Routinely Tested
Flow cytometry	Reported
Immunoprecipitation	Reported

Recommended Assay Procedure:

Positive control cells lines include MCF7 (ATCC HTB 22) and SK-BR-3 (ATCC HTB 30) human breast carcinoma cells.

Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.
3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.

References

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