

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human ErbB2/Her2 Herstatin Isoform in direct ELISAs and Western blots. In direct ELISAs and Western blots, no cross-reactivity with recombinant human (rh) EGFR or rhErbB3 is observed.
Source	Monoclonal Mouse IgG _{2B} Clone # 416711
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>S. frugiperda</i> insect ovarian cell line Sf 21-derived recombinant human ErbB2/Her2 Herstatin Isoform Thr23-Gly419 Accession # AAD56009
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

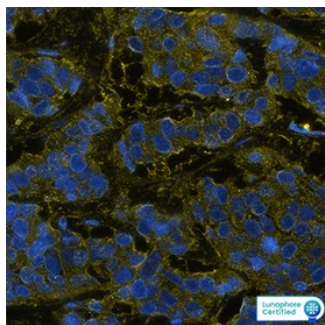
APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

	Recommended Concentration	Sample
Multiplex Immunofluorescence	12 µg/mL	Immersion fixed paraffin-embedded sections of human Breast Cancer
Immunohistochemistry	8-25 µg/mL	See Below

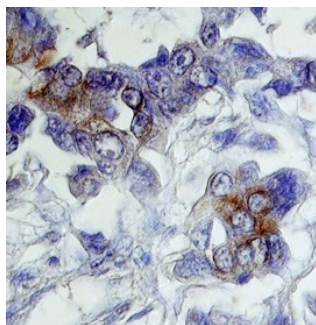
DATA

Multiplex Immunofluorescence



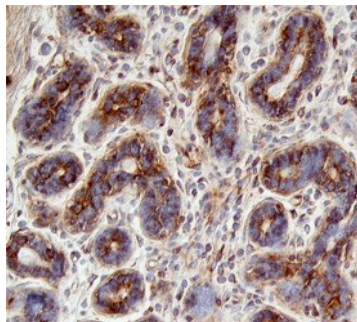
Detection of HER2 in Human Breast Cancer via Multiplex Immunofluorescence staining on COMET™ HER2 was detected in immersion fixed paraffin-embedded sections of human breast cancer using Mouse Anti-Human ErbB2/HER2 Monoclonal Antibody (Catalog # Catalog # [MAB11291](#)) at 12µg/mL at 37 ° Celsius for 4 minutes. Before incubation with the primary antibody, tissue underwent an all-in-one dewaxing and antigen retrieval preprocessing using PreTreatment Module (PT Module) and Dewax and HIER Buffer H (pH 9). Tissue was stained using the Alexa Fluor™ 647 Goat anti-Mouse IgG Secondary Antibody at 1:200 at 37 ° Celsius for 2 minutes. (Yellow; Lunaphore Catalog # [DR647MS](#)) and counterstained with DAPI (blue; Lunaphore Catalog # [DR100](#)). Specific staining was localized to the cytoplasm. Protocol available in [COMET™ Panel Builder](#).

Immunohistochemistry



ErbB2/Her2 in Human Breast Cancer Tissue. ErbB2/Her2 was detected in immersion fixed paraffin-embedded sections of human breast cancer tissue using Mouse Anti-Human ErbB2/Her2 Herstatin Isoform Monoclonal Antibody (Catalog # [MAB11291](#)) at 8 µg/mL overnight at 4 °C. Tissue was stained using the Anti-Mouse HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # [CTS002](#)) and counterstained with hematoxylin (blue). Specific labeling was localized to the cytoplasm of cancer cells. View our protocol for [Chromogenic IHC Staining of Paraffin-embedded Tissue Sections](#).

Immunohistochemistry



ErbB2/Her2 in Human Breast. ErbB2/Her2 was detected in immersion fixed paraffin-embedded sections of human breast using Mouse Anti-Human ErbB2/Her2 Herstatin Isoform Monoclonal Antibody (Catalog # [MAB11291](#)) at 25 µg/mL overnight at 4 °C. Tissue was stained using the Anti-Mouse HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # [CTS002](#)) and counterstained with hematoxylin (blue). View our protocol for [Chromogenic IHC Staining of Paraffin-embedded Tissue Sections](#).

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS. For liquid material, refer to CoA for concentration.
Shipping	Lyophilized product is shipped at ambient temperature. Liquid small pack size (-SP) is shipped with polar packs. Upon receipt, store immediately at the temperature recommended below.
Stability & Storage	<p>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</p> <ul style="list-style-type: none"> • 12 months from date of receipt, -20 to -70 °C as supplied. • 1 month, 2 to 8 °C under sterile conditions after reconstitution. • 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

Herstatin is a secreted 68 kDa glycoprotein encoded by an alternate transcript of the HER-2/neu (erbB-2) gene containing the N-terminal 304 amino acids (aa) of subdomain I and II, and 79 intron-encoded aa at the C-terminus. It is an endogenous inhibitor of the EGF receptor family that disrupts receptor interactions and inhibits growth of tumor cells that overexpress HER-2.