# Anti-gH [YC15] Bulk Size Ab00925-2.3-BT

This antibody was created using our proprietary Fc Silent™ engineered Fc domain containing key point mutations that abrogate binding to Fc gamma receptors.

**Isotype and Format:** Mouse IgG2a, Fc Silent™, Kappa
**Clone Number:** YC15
**Alternative Name(s) of Target:** Glycoprotein H; Kaposi's sarcoma-associated herpesvirus glycoprotein H; KSHV glycoprotein H; KSHV gH; KSHV envelope glycoprotein H; Envelope glycoprotein H
**UniProt Accession Number of Target Protein:** F5HAK9
**Published Application(s):** NTRL, WB, FC, IHC
**Published Species Reactivity:** KSHV
**Immunogen:** Antibodies were produced from a murine hybridoma.
**Specificity:** YC15 was shown to bind ectopically-expressed gH on transfected cell lines, as well as neutralise infection by KSHV virions (unpublished observations). Kaposi's sarcoma is a rare type of cancer, characterised by neoplasmic growth, often associated with AIDS.
**Application Notes:** The YC15 variable domain sequences were cloned and redesigned into the scFv format (Cai & Berger, 2011), and further fused to PE38, a construct of Pseudomonas aeruginosa exotoxin A which is lacking the N-terminal cell adhesion domain. In this format, YC15 showed specific dose-dependent binding to surface-expressed gH using flow cytometry. As an immunotoxin with the fused P. aeruginosa PE38 construct, YC15 facilitated potent cytotoxic activity based on recognition of surface gH epitopes.
**Antibody First Published in:** Cai & Berger. An immunotoxin targeting the gH glycoprotein of KSHV for selective killing of cells in the lytic phase of infection. Antiviral Res. 2011 Jun;90(3):143-50. PMID:21440007
**Note on publication:** Describes the reformatting of YC15 variable domains (obtained in an unpublished study) as a YC15-scFv-PE38 immunotoxin. The gH-binding properties of YC15 were shown to be retained.

## Product Form

**Size:** 1 mg Purified antibody in bulk size.
**Purification:** Protein A affinity purified
**Supplied In:** PBS only.
**Storage Recommendation:** Store at 4$^{0}$C for up to 3 months. Note, this antibody is provided without added preservatives, it is therefore recommed this antibody be handled under sterile conditions. For longer storage, aliquot and store at -20$^{0}$C.
**Concentration:**

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1 mg/ml.

Important note – This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.

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