Anti-gH [YC15] Standard Size Ab00925-2.3

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was shown to bind ectopically-expressed gH on transfected cell lines, as well as neutralise infection by KSHV virions (unpublished observations).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Note on publication: Describes the reformatting of YC15 variable domains (obtained in an unpublished study) as a YC15-scFv-PE38 immunotoxin.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: 200 µg Purified antibody.
Purification: Protein A affinity purified
Supplied In: PBS with 0.02% Proclin 300.
Storage Recommendation: Store at 4ºC for up to 3 months. For longer storage, aliquot and store at -20ºC.
Concentration: 1 mg/ml.

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

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procedures for humans or animals.

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