

# GSK3(alpha+beta)(Phospho-Y216+Y279) Conjugated Antibody

Catalog No: #C13355

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Package Size: #C13355-AF350 100ul #C13355-AF405 100ul #C13355-AF488 100ul

#C13355-AF555 100ul #C13355-AF594 100ul #C13355-AF647 100ul

#C13355-AF680 100ul #C13355-AF750 100ul #C13355-Biotin 100ul

## Description

Product Name	GSK3(alpha+beta)(Phospho-Y216+Y279) Conjugated Antibody
Host Species	Rabbit
Clonality	Monoclonal
Species Reactivity	Hu, Ms, Rt
Immunogen Description	recombinant protein
Conjugates	Biotin AF350 AF405 AF488 AF555 AF594 AF647 AF680 AF750
Other Names	B2M antibody B2MG_HUMAN antibody Beta 2 microglobin antibody Beta 2 microglobulin antibody Beta 2 microglobulin precursor antibody Beta chain of mhc class 1 proteins antibody Beta chain of MHC class I molecules antibody Beta-2-microglobulin form pI 5.3 antibody CDABP0092 antibody Hdcma22p antibody
Accession No.	Swiss-Prot#:P61769
Uniprot	P61769
GeneID	567;
Excitation Emission	AF350: 346nm/442nm AF405: 401nm/421nm AF488: 493nm/519nm AF555: 555nm/565nm AF594: 591nm/614nm AF647: 651nm/667nm AF680: 679nm/702nm AF750: 749nm/775nm
Calculated MW	14
Formulation	0.01M Sodium Phosphate, 0.25M NaCl, pH 7.6, 5mg/ml Bovine Serum Albumin, 0.02% Sodium Azide
Storage	Store at 4°C in dark for 6 months

## Application Details

Suggested Dilution:

AF350 conjugated: most applications: 1: 50 - 1: 250

AF405 conjugated: most applications: 1: 50 - 1: 250

AF488 conjugated: most applications: 1: 50 - 1: 250

AF555 conjugated: most applications: 1: 50 - 1: 250

AF594 conjugated: most applications: 1: 50 - 1: 250

AF647 conjugated: most applications: 1: 50 - 1: 250

AF680 conjugated: most applications: 1: 50 - 1: 250

AF750 conjugated: most applications: 1: 50 - 1: 250

Biotin conjugated: working with enzyme-conjugated streptavidin, most applications: 1: 50 - 1: 1,000

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## Background

Major histocompatibility complex (MHC) class 1 molecules bind to antigens for presentation on the surface of cells. The proteasome is responsible for producing these antigens from the components of foreign pathogens. MHC class 1 molecules consist of an a heavy chain that contains three subdomains ( $\alpha 1$ ,  $\alpha 2$ ,  $\alpha 3$ ), and a non-covalent associating light chain, known as  $\beta$ -2-Microglobulin.  $\beta$ -2-Microglobulin associates with the  $\alpha 3$  subdomain of the a heavy chain and forms an immunoglobulin domain-like structure that mediates proper folding and expression of MHC class 1 molecules. The  $\alpha 1$  and  $\alpha 2$  domains of the a heavy chain form the peptide antigen-binding cleft. Mice that lack  $\beta$ -2-Microglobulin protein show a normal distribution of T cells, yet have no mature CD4-8+ T cells and are defective in CD4-8+ T cell-mediated cytotoxicity. Interferon- $\gamma$  can stimulate production of  $\beta$ -2-Microglobulin transcripts. The human  $\beta$ -2-Microglobulin gene maps to chromosome 15q21-q22.2 and encodes a 119 amino acid protein. Mutations in the  $\beta$ -2-Microglobulin gene can enhance the progression of malignant melanoma phenotypes.

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Note: This product is for in vitro research use only