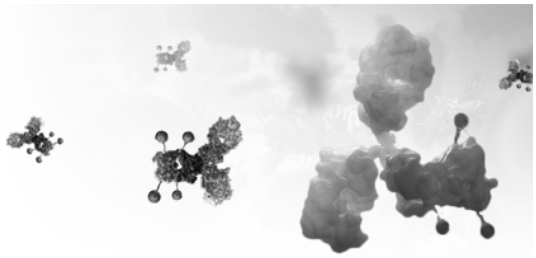

Mouse Anti-Human KIT Hybridoma [CB8.4D.0] (CSC-H0595)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	This hybridoma produces mAbs (IgG2a) against human KIT
Target	KIT
Immunogen	Erythroleukemia cell line OCIM1 because of their high SCF receptor display
Isotype	IgG2a
Species	Other Sources
Clone	CB8.4D.0
Storage	Liquid nitrogen vapor phase. Freezing medium: to complete growth medium, add 5%(v/v) DMSO
Ship	Dry Ice
Immunological Donor	Mouse spleen
Cell Line Description	Animals were immunized with the erythroleukemia cell line OCIM1 because of their high SCF receptor display. Spleen cells were fused with NS-1 mouse myeloma cells. The antibody is specific for human stem cell factor (hSCF) receptor.
Myeloma	NS-1
Fusion Species	Mouse X Mouse Hybridoma

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Growth Properties	Suspension
Morphology	Lymphoblast
Propagation	Complete growth medium: 2 mM L-glutamine, 10 mM HEPES, 1 mM sodium pyruvate, 4500 mg/L glucose, and 1500 mg/L sodium bicarbonate, fetal bovine serum to a final concentration of 10%. Temperature: 37.0 centigrade
Culture Medium	RPMI 1640 with 2 mM L-glutamine, 10 mM HEPES, 1 mM sodium pyruvate, 4500 mg/L glucose and 1500 mg/L sodium bicarbonate , supplemented with 10% FBS.
Subculturing	Incubate cells at 37°C with 5% CO2 in air atmosphere, renew medium every 2-3 days, start cells at 1x10^5 cells/mL and maintain cultures between 1x10^5-1x10^6 cells/ml
Mycoplasma	Mycoplasma Status: Negative (MycoAlert Kit)
Cellular Products	Immunoglobulin: monoclonal antibody against human stem cell factor (hSCF) receptor (CD117)
Preservation	Culture medium 95%; DMSO, 5%
Safety Considerations	The following safety precautions should be observed. 1. Use pipette aids to prevent ingestion and keep aerosols down to a minimum. 2. No eating, drinking or smoking while handling the hybridoma. 3. Wash hands after handling the hybridoma and before leaving the lab. 4. Decontaminate work surface with disinfectant or 70% ethanol before and after working with hybridoma. 5. All waste should be considered hazardous. 6. Dispose of all liquid waste after each experiment and treat with bleach.

GENE INFORMATION

Gene Name	KIT v-kit Hardy-Zuckerman 4 feline sarcoma viral oncogene homolog [Homo sapiens]
Official Symbol	KIT
Synonyms	KIT; v-kit Hardy-Zuckerman 4 feline sarcoma viral oncogene homolog; PBT, piebald trait; mast/stem cell growth factor receptor Kit; C Kit; CD117; SCFR; p145 c-kit; proto-oncogene c-Kit; piebald trait protein; soluble KIT variant 1; tyrosine-protein kinase Kit; proto-oncogene tyrosine-protein kinase Kit; v-kit Hardy-Zuckerman 4 feline sarcoma viral oncogene-like protein; PBT; C-Kit;
Entrez Gene ID	3815

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mRNA Refseq	NM_000222
Protein Refseq	NP_000213
MIM	164920
UniProt ID	P10721
Chromosome Location	4q11-q12
Pathway	Acute myeloid leukemia, organism-specific biosystem; Acute myeloid leukemia, conserved biosystem; C-MYB transcription factor network, organism-specific biosystem; Cytokine-cytokine receptor interaction, organism-specific biosystem; Cytokine-cytokine recep
Function	ATP binding; cytokine binding; metal ion binding; nucleotide binding; protease binding; protein binding; protein homodimerization activity; protein tyrosine kinase activity; receptor activity; receptor signaling protein tyrosine kinase activity; stem cell

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