

**Anti Thioguanine (2-amino-6-mercaptopurine)
Mouse monoclonal antibody**Subclass: IgG_{2a}/λ

PRODUCT NO.	HYB 138-02																
PRESENTATION	Preparation: Protein-A/G purified Content: 1 ml, 1 mg/mL Solvent: 0.01 M phosphate buffer, pH 7.4, with 0.5 M NaCl and 15 mM sodium azide Storage: In the dark at 4-8°C																
ANTIGEN	Thioguanine is a purine analogue used in cancer chemotherapy. It is the 6-thione analogue of the endogenous 6-OH purine base guanine. In the cell thioguanine is converted to the ribonucleotides: 6-thioguanosine-5'-phosphate and 6-thioinosine-5'-phosphate. These fraudulent nucleotides produce their cytotoxic effects by several mechanisms, e.g. inhibitory action on de novo purine synthesis, and may themselves be incorporated into DNA. Thioguanine has a molecular weight of 167 Da (1,2).																
IMMUNOGEN	S-substituted thioguanine linked to PPD (2)																
SPECIFICITY	HYB 138-02 has specificity for thioguanine. Crossreactivity is seen with 6-(methylthio)purine, but not with various other thioguanine analogue (2).																
EPI TOPE SPECIFICITY																	
REACTIVITY	HYB 138-02 reacts strongly with thioguanine coupled to a carrier protein via the sulphur atom in the 6-position, and this interaction can be inhibited with free thioguanine (2).																
CULTURE MEDIUM	Dulbecco's modified Eagle's medium with 10% fetal calf serum																
FUSION PARTNER	X63-Ag8.653.																
IMMUNIZATION	Female CF1 x BALB/c mice immunized i.p. with immunogen adsorbed onto Al(OH) ₃																
APPLICATION	<table border="1"><thead><tr><th>Method</th><th>Usability</th><th>Dilution guideline</th><th>References</th></tr></thead><tbody><tr><td>ELISA</td><td>Yes</td><td></td><td></td></tr><tr><td>Immunoblotting</td><td>Not determined</td><td></td><td></td></tr><tr><td>Immunohistochemistry</td><td>Not determined</td><td></td><td></td></tr></tbody></table>	Method	Usability	Dilution guideline	References	ELISA	Yes			Immunoblotting	Not determined			Immunohistochemistry	Not determined		
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REFERENCES	<ol style="list-style-type: none">Rang HP, Dale MM, Ritter JM (1995) Chemotherapy. Pharmacology. New York: Churchill Livingstone 696-717.Nerstrom VM, Henriksen U, Nielsen PE, Buchardt O, Schmiegelow K, Koch C (1994) Monoclonal antibodies to thioguanine: influence of coupling position on fine specificity. Bioconj Chem 5:357-363.																

CONDITIONS

All products are supplied on the understanding that they are for in vitro use only. The information and product are offered without guarantee as the ultimate conditions of use are beyond our control. The animals from which this product was derived have not been exposed to or inoculated with any livestock or poultry disease agents exotic to the United States or Western Europe, and did not originate from facilities where work with exotic disease agents affecting livestock or avian species is carried out.