

CATALOGUE #: 4OC8

PRODUCT NAME: Monoclonal mouse anti-human osteocalcin

MAbs *in vitro*: 2H9cc, 6F9cc

MAbs *in vivo*: 3G7, 1C4, 1C7, 3G8, 8H12

Hybridoma clones have been derived from hybridization of Sp2/0 myeloma cells with spleen cells of Balb/c mice immunized with bovine osteocalcin with keyhole limpet hemocyanin or recombinant human osteocalcin with glutathione S-transferase.

Specificity: 2H9cc cross-reacts with bovine, rat and pig OC and is not cross-reacting with mouse OC.
 6F9cc is not cross-reacting with bovine, rat, mouse, rabbit or pig OC.

The ability of the MAbs to recognize full length human osteocalcin, tryptic 1-19, 20-43, synthetic 7-19, 15-31 and bovine osteocalcin was tested with Eu-labelled antigens. *3G8 recognizes unlabelled human osteocalcin (hOC) and bovine osteocalcin (bOC) when tested with two-site combinations.

MAb	antigen	Eu-hOC	Eu-hOC 1-19	Eu-hOC 7-19	Eu-hOC 15-31	Eu-hOC 20-43	Eu-bOC
3G7	bOC	+	-	-	+	+	+
1C4	bOC	+	-	-	+	+	+
1C7	bOC	+	-	-	+	+	+
3G8	bOC	(+)*	-	-	-	-	(+)*
2H9cc	rGST-hOC	+	-	-	+	+	+
6F9cc	rGST-hOC	+	+	+	+	-	-
8H12	rGST-hOC	+	+	+	+	-	+

MAb isotypes: IgG1 for 1C4, 1C7, 3G8, 6F9cc, 8H12

IgG2a for 2H9cc

IgG2b for 3G7

Applications: MAbs are working in ELISA. Recommended pairs are (capture-detection):
2H9cc - 6F9cc (detects the large NH₂- terminal fragment and intact hOC)
 3G8 - 2H9cc (detects only the intact hOC)

Purification: Protein A chromatography

Presentation: PBS, pH 7.4, 0.09 % sodium azide (NaN₃) for 6F9cc, 2H9cc
 0.9 % NaCl, 0.09 % sodium azide (NaN₃) for 3G7, 1C4, 1C7, 3G8, 8H12

Storage: +4 °C (+2 ... +8 °C allowed)

Material safety note: This product is sold **for research or further manufacturing use only**. Standard Laboratory Practices should be followed when handling this material.

Product contains sodium azide as a preservative. Although the amount of sodium azide is very small appropriate care must be taken when handling this product.