Application: Immunohistochemical detection of human osteocalcin using monoclonal anti-bovine osteocalcin antibodies

Monoclonal Anti-Bovine Osteocalcin (Cat.# M041)

All four of the Takara Bio Monoclonal Anti-Bovine Osteocalcin antibody clones recognize bovine and human osteocalcins with equivalent affinities. The four monoclonal anti-bovine osteocalcin (Cat.# M041-M044) antibody clones were used to detect human osteocalcin in different human paraffin-embedded tissue samples.

Methods:

Samples: Human Disease Hybrid-Ready Tissues (Novagen); paraffin-embedded tissues

Detection: ENVISION Plus (DAKO)

Staining protocol:

- 1. Deparaffinization of tissues.
- 2. Expose antigens by treating the tissues with proteinase K (0.4 mg/ml) for 5 min. at room temperature.
- 3. Block endogenous peroxidase by treating tissues with a 3% hydrogen peroxide solution for 5 min.
- 4. Inhibit non-specific binding by applying a blocking solution for 20 min.
- 5. React tissues with the primary antibody by incubating tissues with a Monoclonal Anti-Bovine Osteocalcin (10 μg/ml) for 60 min at room temperature.
- 6. React with the secondary antibody using the ENVISION Plus reagents.
- 7. Colorimetric detection of peroxidase by incubating with the DAB substrate.
- 8. Counterstain the samples with hematoxylin.
- 9. Dehydration, fixation, and mounting.

Results continued on next page...

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Results:

mAb Clone	Chondroma	Synovial Sarcoma	Synovial Sarcoma
		(area A)	(area B)
<u>OC4-30</u>			AL AL
OCG2			
OCG3			in a still
OCG4		Contraction of the second seco	Sar MU
<u>OC4-5</u>			Santty
Chondroma:	Hybrid-Ready Tissues/Human Disease Tissues/Bone Tumor (Novagen Cat. No. 70305-3)		
Synovial Sarcoma:	Hybrid-Ready Tissues/Human Disease Tissues/Osteosarcoma		

(Novagen Cat. No. 70386-3)

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