

Osteocalcin Monoclonal Antibody (OCG-3)

Catalog Number33-5700

Product data sheet

Details		Species Reactivity	
Size	100 µg	Species reactivity	Bovine, Human
Host/Isotope	Mouse / IgG3	Published species	Human
Class	Monoclonal	Tested Applications	Dilution *
Type	Antibody	ELISA (ELISA)	1:1,000
Clone	OCG-3	Western Blot (WB)	2-10 µg/mL
Immunogen	Bovine Osteocalcin	Published Applications	
Conjugate	Unconjugated	Immunohistochemistry (IHC)	See 1 publications below
Form	Lyophilized	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
Concentration	2 mg/mL		
Storage Conditions	-20° C, Avoid Freeze/Thaw Cycles		

Product specific information

OCG-3 recognizes gamma-carboxylated residues 21-31 and does not react with heat decarboxylated Osteocalcin. Reconstitute with 50µl distilled water to give a 2 mg/ml stock solution.

Background/Target Information

Osteocalcin belongs to the osteocalcin/matrix Gla-protein family and constitutes 1-2% of the total bone protein. It binds strongly to apatite and calcium. Gamma-carboxyglutamate residues are formed by vitamin K dependent carboxylation. These residues are essential for the binding of calcium.

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PubMed References For Osteocalcin Monoclonal Antibody (OCG-3)

1 Immunohistochemistry References

Species / Dilution	Summary
	33-5700 was used in immunocytochemistry to study the differentiation capacity of Wiedemann-Rautenstrauch (neonatal progeroid) syndrome progenitor cells
Human / Not Cited	<p>In vivo (Athens, Greece) (2005; 19: 831)</p> <p>"In vitro osteogenic differentiation is affected in Wiedemann-Rautenstrauch-Syndrome (WRS)."</p> <p>Author(s):Jäger M,Thorey F,Westhoff B,Wild A,Krauspe R</p> <p>PubMed Article URL:http://www.ncbi.nlm.nih.gov/pubmed/16097434</p>

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