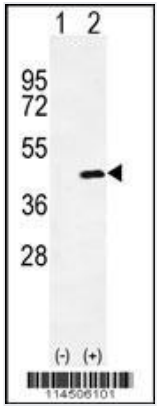
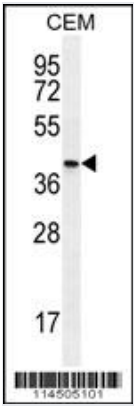
OGN Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

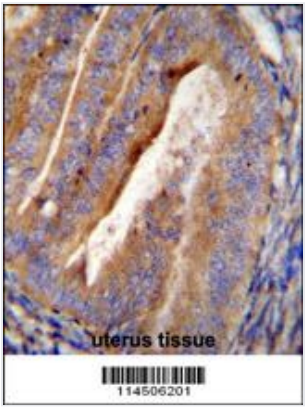
Product Name	OGN, Polyclonal Antibody
Full Product Name	OGN, CT (OGN, OIF, SLRR3A, Mimecan, Osteoglycin, Osteoinductive factor) (PE)
Product Gene Name	anti-OGN antibody
Product Synonym Names	OGN; OIF; SLRR3A; Mimecan; Osteoglycin; Osteoinductive factor
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with R-Phycoerythrin (PE).
Purity/Purification	Purified by Protein A/G Affinity Chromatography.
Specificity	Recognizes human OGN.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: PE conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	33,922 Da
OMIM	602383
3D Structure	ModBase 3D Structure for P20774
Immunogen	KLH-conjugated synthetic peptide mapping to a fragment of residues within amino acids 246-276 in the C-terminal region of human OGN. Species sequence homology: bovine
Conjugate	PE
Note	Preservative Free
Special Handling	Light sensitive
Product Categories/Family for anti-OGN antibody	Antibodies; Proteins
Applications Tested/Suitable for anti-OGN antibody	Immunohistochemistry (IHC) Paraffin, Western Blot (WB), Flow Cytometry (FC/FACS), FLISA
Application Notes for anti-OGN antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-OGN antibody	MBS6327666 is an antibody targeting OGN. Also known as OGN, CT (OGN, OIF, SLRR3A, Mimecan, Osteoglycin, Osteoinductive factor) (PE). Reactive in Human. Host: Rabbit.
Product References and Citations for anti-OGN antibody	1. Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010). 2. Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010). 3. Dimasi, D.P., et al. Mol. Vis. 16, 562-569 (2010). 4. Yerges, L.M., et al. J. Bone Miner. Res. 24(12):2039-2049(2009). 5. Talmud, P.J., et al. Am. J. Hum. Genet. 85(5):628-642(2009).
Other Notes	Small volumes of anti-OGN antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



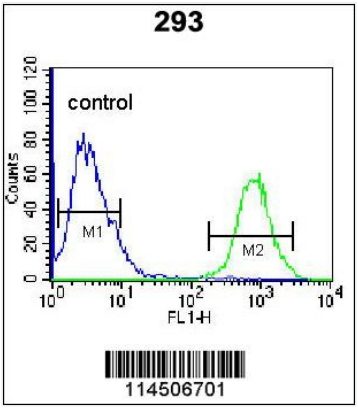
Western Blot (WB) of anti-OGN antibody
Western Blot analysis using MBS6000369 (1:500)dilution Lane 1: CCRF-CEM whole cell lysate Lane 2: MCF-7 whole cell lysate Lysates/proteins at 20 ug per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1:10,000.



Immunohistochemistry (IHC) of anti-OGN antibody
Immunohistochemistry analysis in formalin fixed and paraffin embedded human uterus tissue using MBS6000369 followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of MBS6000369 for immunohistochemistry.



Flow Cytometry (FC/FACS) of anti-OGN antibody
Flow Cytometric analysis of 293 cells using MBS6000369 (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



Testing Data of anti-OGN antibody

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for OGN. It may not necessarily be applicable to this product.

NCBI GI #	14916498
NCBI GeneID	4969
NCBI Accession #	NP_148935.1
NCBI Related Accession #	NP_054776.1
UniProt Primary Accession #	P20774
UniProt Secondary Accession #	Q6FIB0; Q9UF90; Q9UNK5
UniProt Related Accession #	P20774
GenBank Nucleotide #	NM_033014.3
NCBI Official Full Name	mimecan isoform 2
NCBI Official Synonym Full Names	osteoglycin
NCBI Official Symbol	OGN
NCBI Official Synonym Symbols	OG; OIF; SLRR3A
UniProt Protein Name	Mimecan

UniProt Synonym Protein Names	Osteoglycin; Osteoinductive factor; OIF
Protein Family	Mimecan
UniProt Gene Name	OGN
UniProt Synonym Gene Names	OIF; SLRR3A; OIF
UniProt Entry Name	MIME_HUMAN
NCBI Protein Information	mimecan
NCBI Summary for OGN	This gene encodes a member of the small leucine-rich proteoglycan (SLRP) family of proteins. The encoded protein induces ectopic bone formation in conjunction with transforming growth factor beta and may regulate osteoblast differentiation. High expression of the encoded protein may be associated with elevated heart left ventricular mass. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2016]
UniProt Comments for OGN	OGN: Induces bone formation in conjunction with TGF-beta-1 or TGF-beta-2. Belongs to the small leucine-rich proteoglycan (SLRP) family. SLRP class III subfamily. Protein type: Secreted; Secreted, signal peptide Chromosomal Location of Human Ortholog: 9q22 Cellular Component: extracellular matrix; extracellular space; lysosomal lumen; proteinaceous extracellular matrix; Golgi lumen; extracellular region; vesicle Molecular Function: protein binding; growth factor activity Biological Process: keratan sulfate metabolic process; glycosaminoglycan metabolic process; negative regulation of smooth muscle cell proliferation; keratan sulfate biosynthetic process; carbohydrate metabolic process; pathogenesis; keratan sulfate catabolic process
Research Articles on OGN	**1.** OGN might play a role in the development of Ovarian Cancer, and may be a therapeutic target in OC.
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