

Osteonectin/SPARC Rabbit Recombinant Oligoclonal Antibody – Purified

Catalog no. 710030

(See product label for lot information)



Clone/PAD: 12HCLC
Isotype: IgG
Gene ID: 6678
Protein Acc. no.: P09486
Qty: 100 µg
Volume: 200 µL
Concentration: 0.5 mg/mL

Formulation

PBS + 0.09% sodium azide

Application

For use in Western Blotting

Immunogen

Protein corresponding to amino acids
18–303 of human Osteonectin

Sequence Identity

Human

Sequence Homology

Mouse

Expected Reactivity

Based on sequence identity and similarity,
reactivity to Mouse is predicted.

Storage

2–8°C for up to 1 month, –20°C for long
term storage. Avoid repeated freezing and
thawing.

Expiration Date

Expires one year from date of receipt when
stored as instructed.

Background

Osteonectin is a matrix-associated protein which is also known as Secreted Protein Acidic and Rich in Cysteine (SPARC) and Basement membrane tumor matrix component (BM-40). Though these noncollagenous glycoproteins play a very important role in bone mineralization, they have also been found to be expressed in other tissues performing other functions such as tissue repair, remodeling of tissue and development (1,2). It is a multifunctional protein with a high affinity for cations and hydroxyapatite that provides support to extracellular matrix and mediates the activities of a wide range of growth factors (3). In addition to this osteonectin is also known to play a vital role in tumor formation (4). Osteonectin is found to be present on the q arm of chromosome 5 (5).

References

1. Yan Q, Sage EH (1999). SPARC, a matricellular glycoprotein with important biological functions. *Journal of Histochemistry Cytochemistry*. (12):1495-506.
2. Villarreal XC, Mann KG, Long GL. (1989). Structure of human osteonectin based upon analysis of cDNA and genomic sequences. *Biochemistry*. (15):6483-91.
3. Bradshaw, A.D., Sage, E.H., (2001). SPARC, a matricellular protein that functions in cellular differentiation and tissue response to injury. *The Journal Of Clinical Investigation* 107 (9),1049–1054.
4. Gilmour, D.T., Lyon, G.J., Carlton, M.B., Sanes, J.R., Cunningham, J.M., Anderson, J.R., Hogan, B.L., Evans, M.J., Colledge, W.H., (1998). Mice deficient for the secreted glycoprotein SPARC/osteonectin/BM40 develop normally but show severe age-onset cataract formation and disruption of the lens. *The EMBO Journal*, 17 (7), 1860–1870.
5. Swaroop A, Hogan BL, Francke U. (1988). Molecular analysis of the cDNA for human SPARC/osteonectin/BM-40: sequence, expression, and localization of the gene to chromosome 5q31-q33. *Genomics*. 2(1):37-47.

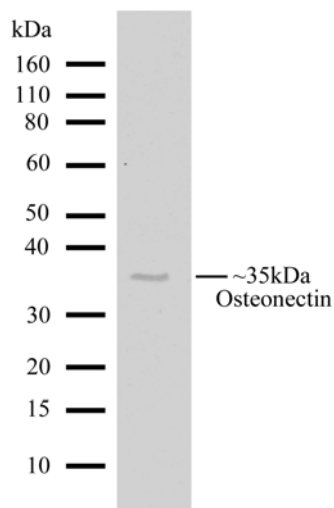
Applications:

	Species	Test Material	Concentration
Western Blotting	Human	SK-N-MC	4–5 µg/mL

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Western Blot of Osteonectin/SPARC labeled with Osteonectin/SPARC Rabbit Recombinant Oligoclonal Antibody (Cat. no. 710030).

Osteonectin Rabbit Recombinant Oligoclonal Antibody (2.5 µg/mL) was used to detect Osteonectin in SK-N-MC (30 µg/lane). The western was performed using the WesternBreeze® kit with NBT/BCIP as the substrate (Cat. no. WB7105).

Explanation of symbols

Symbol	Description	Symbol	Description
	Catalogue Number		Batch code
	Research Use Only		<i>In vitro</i> diagnostic medical device
	Use by		Temperature limitation
	Manufacturer		European Community authorised representative
	Without, does not contain		With, contains
	Protect from light		Consult accompanying documents
	Directs the user to consult instructions for use (IFU), accompanying the product.		

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