



# Anti-NID1 monoclonal antibody, clone 403228 (DCABY-4118)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

<b>Antigen Description</b>	Nidogen-2 (also called entactin-2) is a 200 kDa, secreted, basement membrane glycoprotein. Nidogens-1 and -2 are expressed in nearly all basement membranes where they interact with laminins, collagen type IV, and proteoglycan family members. Nidogen-2 contains three globular domains (G1-3) separated by a link region and an extended rod-shaped segment. The G1 domain is reported to bind type IV collagen, the G2 domain interacts with perlecan, and C-terminal G3 is associated with laminin binding. There is one EGF-like motif and a short peptide that ligates alpha 3 beta 1 integrins. The rod-shaped segment contains four additional EGF-like motifs and two thyroglobulin type 1 domains that serve as a binding site for alpha V beta 3 integrins.
<b>Specificity</b>	Detects human Nidogen-1/Entactin in ELISAs and Western blots. In direct ELISAs and Western blots, no cross-reactivity with recombinant human Nidogen-2 is observed.
<b>Immunogen</b>	Mouse myeloma cell line NS0-derived recombinant human Nidogen-1/Entactin. Leu29-Lys1114 (Gln1113Arg) Accession Number AAH45606.1
<b>Isotype</b>	IgG1
<b>Source/Host</b>	Mouse
<b>Species Reactivity</b>	Human
<b>Clone</b>	403228
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	Western Blot, Immunocytochemistry, Immunohistochemistry, ELISA Capture (Matched Pair)

<b>Format</b>	Liquid
<b>Size</b>	500 µg
<b>Buffer</b>	Lyophilized from a 0.2 µm filtered solution in phosphate-buffered saline (PBS) with 5% trehalose.
<b>Preservative</b>	None
<b>Storage</b>	Lyophilized samples are stable for twelve months from date of receipt when stored at -20 °C to -70 °C. Upon reconstitution, the antibody can be stored at 2 to 8 °C for 1 month without detectable loss of activity. Reconstituted antibody can also be aliquotted and stored frozen at -20 °C to -70 °C in a manual defrost freezer for six months without detectable loss of activity. Avoid repeated freeze-thaw cycles.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">NID1 nidogen 1 [ Homo sapiens (human) ]</a>
<b>Official Symbol</b>	NID1
<b>Synonyms</b>	NID1; nidogen 1; NID; nidogen-1; NID-1; enactin; entactin;
<b>Entrez Gene ID</b>	<a href="#">4811</a>
<b>Protein Refseq</b>	<a href="#">NP_002499</a>
<b>UniProt ID</b>	<a href="#">P14543</a>
<b>Chromosome Location</b>	1q43
<b>Pathway</b>	Degradation of the extracellular matrix; Extracellular matrix organization; Laminin interactions;
<b>Function</b>	calcium ion binding; collagen binding; laminin binding; laminin-1 binding; proteoglycan binding;