

Produktinformation



Forschungsprodukte & Biochemikalien
Zellkultur & Verbrauchsmaterial
Diagnostik & molekulare Diagnostik
Laborgeräte & Service

Weitere Information auf den folgenden Seiten! See the following pages for more information!



Lieferung & Zahlungsart siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Datasheet for B304 Normal Goat Serum (NGS)

Overview

| Description: | Normal Goat Serum (NGS) - B304 |
|---------------|------------------------------------|
| Item No.: | B304 |
| Size: | 10 mL |
| Applications: | SDS-PAGE, ChIP, IF, IHC, Multiplex |
| Origin: | Goat |

Product Details

| Background: | Goat Serum blocking reagent or NGS can be used as a blocking agent to treat plastic surfaces, membrane or tissue after they have been sensitized with primary antibody or antigen. It provides an alternative to bovine serum albumin (BSA) and non-fat dry milk. It is effective in reducing nonspecific binding of proteins to reaction surfaces, thereby maximizing signal-to-noise ratio. This blocking agent is recommended for use in immunoassays where the primary antibody was produced in goat, as a source of non-specific serum protein or on tissue for immunohistochemical applications. |
|--------------------|--|
| Synonyms: | blocking goat serum, blocking grade goat serum, 10% NGS, normal goat serum, goat serum blocking buffer |
| Species of Origin: | Goat |

Target Details

| Purity/Specificity: | Goat Serum blocking reagent or NGS was prepared from normal serum by a multi-step process which includes delipidation and selective precipitation. Assay by immunoelectrophoresis resulted in a multiple precipitin arcs against anti-Goat Serum. Normal Goat Serum was obtained from non-immunized healthy goats. |
|---------------------|---|
| Relevant Links: | • B304-SDS |

Application Details

| Tested Applications: | SDS-PAGE |
|----------------------|----------|
|----------------------|----------|



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| Suggested Applications: | ChIP, IF, IHC, Multiplex (Based on references) |
|-------------------------|---|
| Application Note: | Goat Serum blocking reagent or NGS has been tested by SDS-PAGE and is ideal for blocking procedures such as Western blotting, ELISA and immunochemistry to prevent nonspecific binding. |
| Assay Dilutions: | All assays should be optimized by the user. Recommended dilutions (if any) may be listed below. |
| ELISA: | User Optimized |
| FC: | User Optimized |
| FLISA: | User Optimized |
| IF: | User Optimized |
| IHC: | User Optimized |
| IP: | User Optimized |
| WB: | User Optimized |

Formulation

| Physical State: | Lyophilized |
|-------------------------------|---|
| Concentration: | 110 mg/mL by Refractometry |
| Buffer: | 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 |
| Preservative: | 0.01% (w/v) Sodium Azide and 0.01% (w/v) Gentamicin Sulfate |
| Stabilizer: | None |
| Reconstitution Volume: | 10 mL |
| Reconstitution Buffer: | Restore with deionized water (or equivalent) |

Shipping & Handling

| Shipping Condition: | Ambient |
|---------------------|--|
| Storage Condition: | Store normal goat serum at 4° C prior to restoration. For extended storage aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use. |
| Expiration: | Expiration date is one (1) year from date of receipt. |



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Images

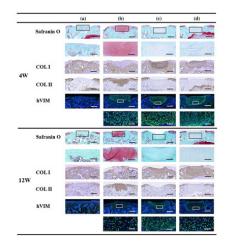


Bottle Normal Goat Serum (NGS)



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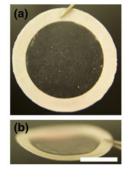


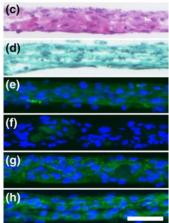
Immunohistochemistry

Representative microscopic images from the histological and immunohistochemical analyses. Frozen sections were blocked with 5% normal goat serum (NGS, p/n B304). Group A, untreated; Group B, LC sheet containing 5.0 × 105 cells alone; Group C, SY sheet containing 5.0 × 105 cells alone; and Group D, SY sheet plus LC sheet, each containing 5.0 × 105 cells. For each group, n = 6. Four weeks after transplantation in Groups B, C, and D, the defects were filled with repaired tissue. Histological analysis of Group A revealed no Safranin O staining or formation of a chondral layer but revealed bone-like tissue or fibrous tissue. In Group B, strong Safranin O staining was observed. In Groups C and D, no Safranin O staining was observed. Immunohistochemical analysis revealed negative staining for COL II and hVIM in Group A, positive staining for COL II and hVIM in Group B, and positive staining for COL I and hVIM in Groups C and D. At 12 weeks after transplantation, the defects in Groups B, C, and D, in which transplantation was performed, were filled with repaired tissue. Histological analysis of Group A revealed no Safranin O staining or formation of a chondral layer but revealed bone-like tissue. In Group B, strong Safranin O staining was observed. In Groups C and D, no Safranin O staining was observed. Immunohistochemical analysis revealed negative staining for COL II and hVIM in Group A, positive staining for COL II and hVIM and partial staining for COL I in Group B, and positive staining for COL I and hVIM in Groups C and D. Low-power images of Safranin O, COL I, COL II, and hVIM staining are shown in the upper rows (scale bar = $500 \mu m$). High-power images of Safranin O and hVIM are shown in the lower rows (scale bar of Safranin O = 200 μ m, scale bar of hVIM = 50 μm). LC: layered chondrocyte; SY: synoviocyte; COL I: type I collagen; COL II: type II collagen; hVIM: human vimentin. Fig 3. PMID: 32652894.

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Toma 1 - DAY Toma 1 - DAY Toma 2 - DAY

Immunohistochemistry

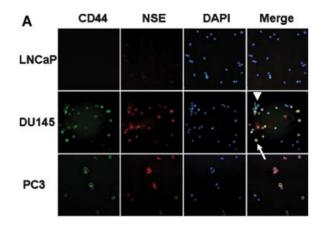
Representative macrographs and micrographs of TKA sheets. (a) Macrograph of a TKA sheet attached to a PVDF support membrane and (b) the same thin sheet seen from an angle. Scale bar = 1 cm. Histological analysis of sections of layered chondrocyte sheets stained with (c) HE and (d) Safranin O. Immunohistochemical analysis revealed (e) positive staining for COL1, (f) slight staining for COL2, (g) positive staining for ACAN, and (h) positive staining for FN. Scale bar = $50 \mu m$. TKA sheets were fixed in 4% paraformaldehyde in phosphate buffer and embedded in optimal cutting temperature compound. Twenty-micrometre-thick sections were stained with haematoxylin and eosin (HE) or with Safranin O, Fast Green, and HE. For immunohistochemical analysis, 10-µm sections were blocked with 5% normal goat serum (NGS; p/n B304) and 0.3% Triton X-100 in phosphate buffer for 30 min. The sections were then incubated with primary antibodies (COL1; dilution 1:200); (COL2; dilution 1:200); (ACAN; dilution 1:10); or (FN; dilution 1:500) at 4°C overnight. ACAN: aggrecan; COL1: Type I collagen; COL2: Type II collagen; FN: fibronectin; HE: haematoxylin and eosin; TKA: total knee arthroplasty; PVDF: polyvinylidene difluoride. Figure 1. PMID: 30058138.

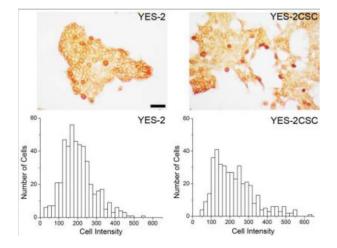
Immunofluorescence Microscopy

Calca-tdT neurons produce circumferential endings around hair shafts and free nerve endings in hairy skin independent of merkel cells. Hair from the skin of the back of mice was removed using a depilatory cream, and cut into square pieces of approximately 5 mm × 5 mm. The tissues were fixed in 4% PFA in PBS at 4 °C for 3–5 days. After a PBS wash, tissues were mounted in OCT medium, and sectioned at 80–90 µm on a cryostat. Skin sections were rinsed in PBS and incubated in blocking buffer (5% goat serum [p/n B304]; 0.5% Triton-X100) for 3 hours at room temperature. Sections were incubated in primary antibodies in blocking buffer at 4°C overnight. Sections were rinsed and incubated overnight in AlexaFluor conjugated secondary antibodies. (A) Immunostaining for Troma-1 (green) shows Calca labeling is independent of merkel cells. (B) Images of hairy skin from the cheek (top) and belly (bottom) from Calca-tdT mice. Calca circumferential endings (arrow heads) wrap around hair shafts while free nerve endings (arrows) are found in more superficial layers. (C) Calca-tdT free nerve endings are NF200-negative. Figure S6. PMID: 28817806.

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Immunofluorescence Microscopy

Co-expression of NSE and CD44in human prostate cancer cell lines. A:Immunofluorescence studies on cytospin samples with antibodies against CD44,NSE (with DAPI staining nuclei) show co-expression of CD44 and NSE in the same cells. LNCaP cells are double negative for the two markers and PC3 cells are double

positive.ThemajorityofDU145cellsaredoublepositive (arrow) but a minority are double negative (arrowhead) (magnification 400).

Cytospin preparations of PC cells were fixed in methanol for 10 min at 20C, rehydrated in PBS, and blocked in 5% normal goat serum (p/n B304) for 30 min. The slides were incubated with antibodies against CD44 (at 1:200) and neuron-specific enolase (NSE at 1:50) overnight at 4C followed by incubation with secondary antibodies (goat anti-rat IgG FITC and Alexa Fluor 546 goat anti-mouse) for 40 min at room temperature. Fig 3. PMID: 19189306.

Immunocytochemistry

CD44 immunocytochemistry. Above: CD44-stained cells are visible in YES-2 and in the YES-2CSC line which has high-Aldefluor staining as selected by FACS.

The cells were fixed with methanol for 5 min, washed with PBS three times, exposed to 0.3% hydrogen peroxide for 3 min, and rinsed three times with PBS. The cells were then incubated with normal goat serum (NGS, p/n B304) at 1:100 dilution for 30 min at room temperature followed by mouse monoclonal anti-human CD44 antibody at 1:10 dilution for 2 hrs at room temperature. After three rinses with PBS, the cells were incubated with goat anti-mouse horseradish peroxidase-conjugated antibody at 1:40 dilution for 30 min and then exposed to ImmunPACT diaminobenzidine for 10 min.

Below: High CD44-staining cells are more abundant in the YES-2CSC line than in the YES-2 line. Scale bar = $100 \mu m$. Fig 3. PMID: 23983818.

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