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Polyclonal Antibody to Porcine Transforming Growth Factor-beta (TGF-β)

Catalog No.: BP866

Quantity: 0.25 mg

Host: Chicken

Immunogen: native

Applications: ELISA (1/500-1/1,500). Western blot (1/500-1/1,500). Neutralization (Neutralises porcine and human TGF-b1 and TGF-b1.2. Reacts with murine TGF-b1. Has a very low affinity for TGF-b2. Does not react with FGF, PDGF, TNFa or b or IL 1, 2, 3, 4, 6 or 7. ND50: Approximately 0.2-0.6 µg/ml in the presence of 0.25 ng/ml of rhTGF-b1, using TGF-b responsive HT-2 cells). Other applications not tested. Optimal dilutions of this antibody are dependent on conditions and should be determined by the user.
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Specificity: Reactive with porcine TGF-β.

Storage: Store the antibody at -20°C. Avoid repeated freezing and thawing. Shelf life: one year from despatch.

Western blotting protocol Blotting:
1. Following electrophoresis, align the gel on a PVDF membrane previously wetted in 100% methanol and transfer buffer.
2. Sandwich the gel and PVDF membrane between two sheets of 3 mm paper and mount in cassettes (see manufacturer's instructions).
3. Blot for 2 hours at 80 volts (constant voltage) with cooling in a Bio-Rad mini Trans- Blot or similar transfer chamber.
4. Store the membrane dry at 4şC overnight.
Blocking:
1. The following day, wet the membrane with 100% methanol for 5 seconds.
2. Rinse in TBS then block in TBS containing 1% EIA grade BSA and 0.05% Tween 20 for 2 hours at room temperature.
Detection:
1. Dilute the stock solution of anti-TGF beta antibody in blocking buffer to a dilution of 1/500 - 1/1000.
2.Incubate the blocked nitrocellulose with the diluted antibody for 2 hours at room temperature. (To minimise the diluted antibody required for this incubation place the nitrocellulose in a heat seal bag slightly larger than the nitrocellulose, add the diluted antibody, seal the bag and then incubate on a rocker. Under these conditions 10 ml of diluted antibody should be ample for the incubation of a whole gel. Smaller amounts should be sufficient if only a few gel lanes were blotted. The diluted antibody can be re-used at least five times within one month when stored at 2-4şC and with the addition of 0.05% azide.)
3. Wash the nitrocellulose X3 in TBS containing 0.05% Tween 20 for 5 minutes in 100 ml for each wash.
4. Add specific anti-IgY enzyme or biotin labelled antibody at an appropriate dilution. Incubate at room temperature for 1 hour. Wash as in step 3.
5. Use appropriate biotin detection reagents.
6. Un