SANTA CRUZ BIOTECHNOLOGY, INC.

E2-probe (3F12): sc-58350

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

Bovine Papillomavirus are small non-enveloped viruses with an icosahedral shape and a circular double-stranded DNA genome. The early region of the Bovine Papillomavirus genome encodes nonstructural proteins E1 to E8, while the late region encodes for the structural proteins L1 and L2. The E2 protein is the master regulator of the papillomavirus transcription and replication, the activity of which is regulated through sequence-specific DNA binding. There are six types of Bovine Papillomavirus that each infect a different human area. The six types are divided into two broad subgroups, A and B. Subgroup B viruses cause warts upon infection that have a cauliflower-like appearance and are most common on the head, neck and shoulders in humans. Subgroup A viruses cause cutaneous fibropapillomas that have a nodular appearance.

REFERENCES

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SOURCE

E2-probe (3F12) is a mouse monoclonal antibody raised against amino acids 197-208 of E2 regulatory protein of bovine papillomavirus representing the E2 tag.

PRODUCT

Each vial contains 100 µg IgG_1 in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

E2-probe (3F12) is recommended for detection of E2 tag by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)] and immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500).

STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.