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SPO11 (vPair™) Antibodies

Cat#: R3180-vp

Lot#: Refer to vial

Predicted | Observed M.W.: 45 | 48 kDa

Uniprot ID: Q9Y5K1

Application: WB, IP

Quantity: 50 ul SPO11 (C) (R3180-1) Rabbit Polyclonal Antibody &
50 ul SPO11 (N) (R3180-2) Rabbit Polyclonal Antibody

Product Introduction:

vPair™ antibodies represent a pair of fully characterized antibodies that recognize two different regions of a target protein. The product is developed by Abiocode to address whether the signal observed truly represents the protein of interest, an often encountered issue in antibody-based assays. The use of a pair of fully characterized vPair™ antibodies in the same assay can validate signal specificity since vPair™ antibodies recognize two independent epitopes of the same protein. Different sets of vPair™ antibodies are developed at Abiocode to work with specific applications, including antibody arrays, Western blot, IP-Western, ChIP, IHC, and FACS.

Background:

Meiotic recombination protein SPO11 is a nuclear protein that belongs to the TOP6A family. SPO11 is required for meiotic recombination. SPO11 mediates DNA cleavage that forms the double-strand breaks (DSB) that initiate meiotic recombination.

Other Names:

Meiotic recombination protein SPO11, Cancer/testis antigen 35, CT35

Source and Purity:

Rabbit polyclonal antibodies were produced by immunizing animals with GST-fusion proteins containing either the C-terminal [SPO11 (C) (R3180-1)] or the N-terminal [SPO11 (N) (R3180-2)] region of human SPO11. Antibodies were purified by affinity purification using immunogen.

Storage Buffer and Condition:

Supplied in 1 x PBS (pH 7.4), 100 ug/ml BSA, 40% Glycerol, 0.01% NaN₃. Store at -20 °C. Stable for 6 months from date of receipt.

Species Specificity:

Human, Mouse

Tested Applications:

WB: 1:1,000-1:3,000 (detect endogenous protein*)

IP: 1:100-1:200

*: The apparent protein size on WB may be different from the calculated M.W. due to modifications.

Product Data:

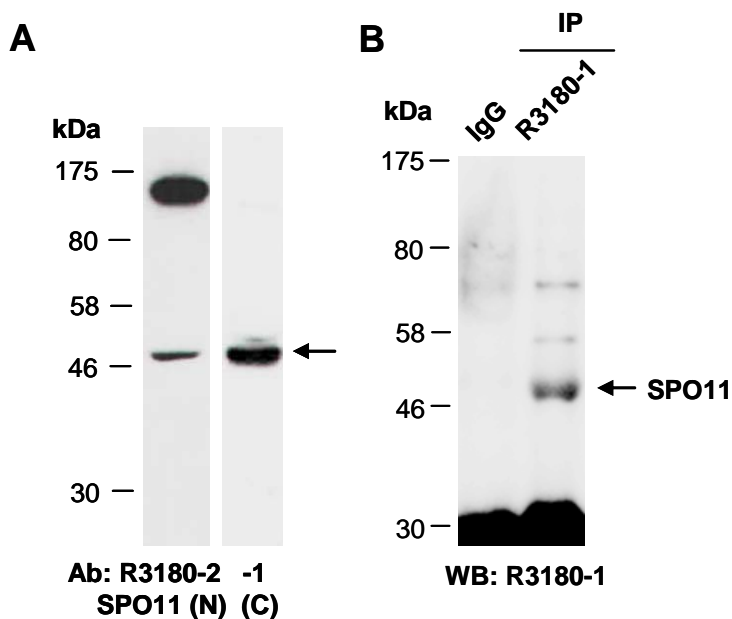


Fig 1. A) Western blot of total cell extracts from mouse thymus; using 2 independent Abs against 2 distinct regions of human SPO11 at RT for 2 h. **B)** Total extracts from mouse thymus were immunoprecipitated (IP) with IgG or anti-SPO11 (C) (R3180-1); followed by WB with the same Ab and Rabbit IgG light chain-specific 2nd antibody.