MONOCLONAL ANTIBODY TO
HUMAN SUMO-1
clone 1B12-E2

Catalog no  HM2327 (lot number and expiry date are indicated on the label)
Description  Post-translational modification regulated by conjugation of a small ubiquitin-like modifier (SUMO) is involved in various cellular processes such as transcriptional regulation, apoptosis and nuclear transport. Recent proteomic analyses in mammalian cells revealed that a number of SUMO substrates and specific modifications by SUMO-1 are involved in essential processes, including chromatin organization, transcription, RNA metabolism, immunomodulation and development of the innate immune system.
Aliases  SMT3, GMP1, UBL1 and PIC1
Immunogen  hSUMO-1 and Lipoplex (O) complex
Species  Mouse IgG3
Cross reactivity  Can only recognize human SUMO-1 and has no reactivity with SUMO-2, -3, -4 or aldose reductase.
Formulation  1 ml (100 µg/ml) 0.2 µm filtered antibody solution in PBS, containing 0.1% bovine serum albumin and 0.02% sodium azide.
Application

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N.D. = Not Determined; F = Frozen sections; FC = Flow Cytometry; FS = Functional Studies; IA = Immuno Assays; IF = Immuno Fluorescence; IP = Immuno Precipitation; P = Paraffin sections; W = Western blot

Application notes  Higher expression of SUMO-1 was detected in normal adrenal gland, esophagus, pancreas, liver, stomach, kidney, and uterus. The function of SUMO-1 may vary depending on the tissue types.

IHC-P: Tissue sections were deparaffinized in xylene, rehydrated, and treated with fresh 0.3% hydrogen peroxide in methanol for 15 min.
W: A non-reduced sample treatment was used.


Use  For Western blotting, dilutions to be used depend on detection system applied. It is recommended that users test the reagent and determine their own optimal dilutions. The typical starting working dilution is 1:10.

Storage and stability  Product should be stored at 4°C. Under recommended storage conditions, product is stable for at least one year. The exact expiry date is indicated on the label.

Precautions  For research use only. Not for use in or on humans or animals or for diagnostics. It is the responsibility of the user to comply with all local/state and federal rules in the use of this product. Hycult Biotech is not responsible for any patent infringements that might result from the use or derivation of this product.

Also available  HM5009  Monoclonal antibody against Ubiquitin, clone Ubi-1