

Human ZSCAN21 Antibody

Antigen Affinity-purified Polyclonal Sheep IgG Catalog Number: AF8015

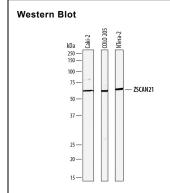
DESCRIPTION			
Species Reactivity	Human		
Specificity	Detects human ZSCAN21 in direct ELISAs and Western blots.		
Source	Polyclonal Sheep IgG		
Purification	Antigen Affinity-purified		
Immunogen	E. coli-derived recombinant human ZSCAN21 Asn139-Asp223 Accession # Q9Y5A6		
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.		

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

	Recommended Concentration	Sample
Western Blot	2 μg/mL	See Below

DATA



Detection of Human ZSCAN21 by Western Blot, Western blot shows lysates of Caki-2 human clear cell carcinoma epithelial cell line, COLO 205 human colorectal adenocarcinoma cell line, and NTera-2 human testicular embryonic carcinoma cell line. PVDF membrane was probed with $2\,\mu\text{g/mL}$ of Sheep Anti-Human ZSCAN21 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF8015) followed by HRPconjugated Anti-Sheep IgG Secondary Antibody (Catalog # HAF016). A specific band was detected for ZSCAN21 at approximately 60 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 8.

PREPARATION AND STORAGE

Reconstitution Sterile PBS to a final concentration of 0.2 mg/mL

Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C

Stability & Storage

Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

- 12 months from date of receipt, -20 to -70 °C as supplied
- 1 month, 2 to 8 °C under sterile conditions after reconstitution.
- 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

ZSCAN21 (Zinc finger and SCAN domain-containing protein 21; also Zfp-38, NY-REN-21, Zipro1 and Ru49) is a nuclear member of the multi-finger SCAN box protein family. It is expressed in select cell types, including cerebellar granule cells, Schwann cells, cerebral cortical and sympathetic neurons, round spermatids, and cells of the hair follicles plus sebaceous glands. It may have multiple functions, one of which is to initiate transcription of neuronal α-synuclein, while a second may be to promote granule cell proliferation. Human ZSCAN21 is 473 amino acids (aa) in length. It contains one SCAN (SREZBP, Ctfin51, AW-1/ ZNF174, and Number 18) domain (aa 45-127) that mediates dimerization, followed by seven consecutive C2H2-type zinc-finger regions (aa 277-466). ZSCAN21 is known to form both noncovalent homodimers and heterodimers with SCAND1. There is one potential isoform variant that shows a 188 aa substitution for aa 263-473. Over aa 139-223, human ZSCAN21 shares 54% aa sequence identity with mouse ZSCAN21.

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