

## DESCRIPTION

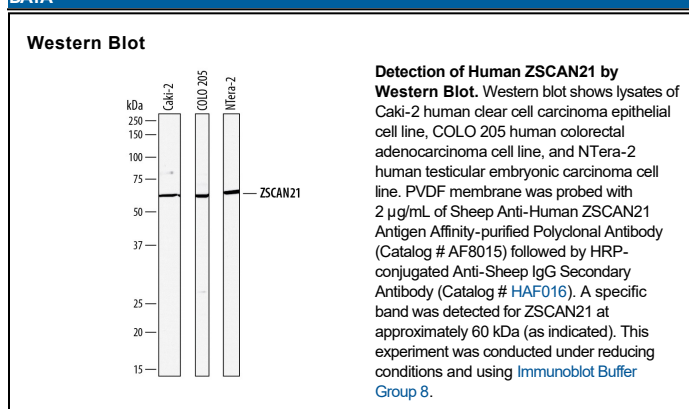
<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human ZSCAN21 in direct ELISAs and Western blots.
<b>Source</b>	Polyclonal Sheep IgG
<b>Purification</b>	Antigen Affinity-purified
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant human ZSCAN21 Asn139-Asp223 Accession # Q9Y5A6
<b>Formulation</b>	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.

	<b>Recommended Concentration</b>	<b>Sample</b>
<b>Western Blot</b>	2 µg/mL	See Below

## DATA



## PREPARATION AND STORAGE

<b>Reconstitution</b>	Sterile PBS to a final concentration of 0.2 mg/mL.
<b>Shipping</b>	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
<b>Stability &amp; Storage</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <li>12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>

## BACKGROUND

ZSCAN21 (Zinc finger and SCAN domain-containing protein 21; also Zfp-38, NY-REN-21, Zfp1 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  $\alpha$ -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.