

**DESCRIPTION**

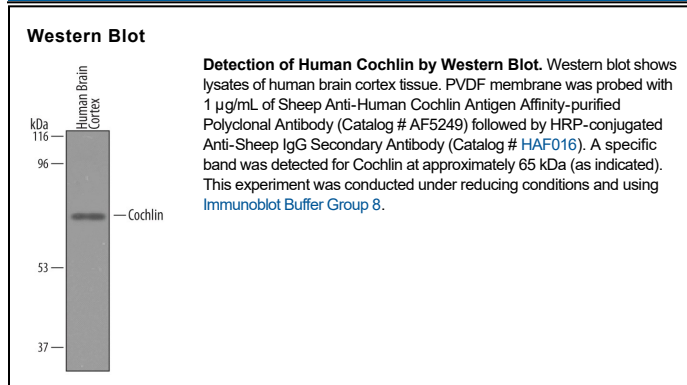
<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human Cochlin in direct ELISAs and Western blots.
<b>Source</b>	Polyclonal Sheep IgG
<b>Purification</b>	Antigen Affinity-purified
<b>Immunogen</b>	Mouse myeloma cell line NS0-derived recombinant human Cochlin Glu25-Gln550 Accession # O43405
<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>	1 µg/mL	See Below

**DATA**



**PREPARATION AND STORAGE**

<b>Reconstitution</b>	Reconstitute at 0.2 mg/mL in sterile PBS.
<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**

Cochlin (COCH/coagulation factor C homology; also Coch-5B2) is a 63-70 kDa, secreted member of the Cochlin-related glycoprotein family. It is expressed by type I and III fibrocytes of the auditory spiral limbus and constitutes the major noncollagenous component of inner ear ECM. Mature human Cochlin is 526 amino acids (aa) in length. It contains one LCCL (or FCH/factor C homologous) segment (aa 28-121) and two VWF-A domains (aa 165-346 and 367-537). Single aa changes at positions 66, 88 and 109 are detrimental to Cochlin deposition. Multiple splice variants exist. There are two potential alternate start sites at Met113 and Met194, an Ala-Lys substitution for aa 493 - 550, a 44 aa insertion after Thr244 and an 13 aa substitution for aa 343 - 550. Over aa 25-550, human Cochlin shares 96% aa identity with mouse Cochlin.