

DESCRIPTION

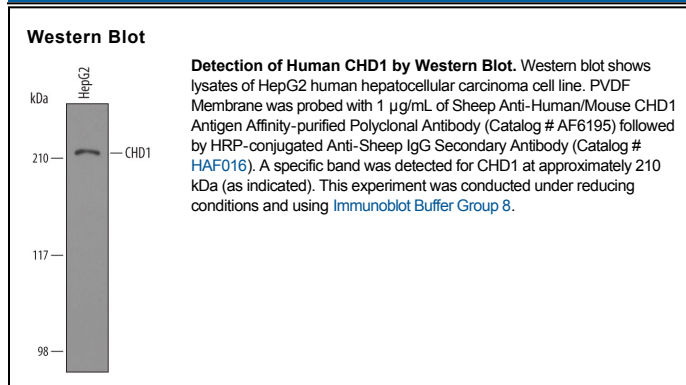
Species Reactivity	Human/Mouse
Specificity	Detects human and mouse CHD1 in direct ELISAs and Western blots. In direct ELISAs and Western blots, less than 1% cross-reactivity with recombinant human CHD5 is observed.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human CHD1 Lys1531-Thr1710 Accession # O14646
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 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	1 µg/mL	See Below

DATA



PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
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. <ul style="list-style-type: none"> ● 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

CHD1 (Chromohelicase/ATPase DNA-binding protein 1) is a 200-220 kDa member of the SNF2/RAD54 helicase family of proteins. It is an ATP-dependent chromatin remodeling factor that helps maintain chromatin in a transcriptionally active state. In embryonic stem cells, CHD1 associates with the promoters of active genes, a condition that is associated with open chromatin and pluripotency. Human CHD1 is 1710 amino acids (aa) in length. It contains two Ser-rich regions (aa 1-70 and 117-137), two Chromo (chromatin-organizer-modifier) domains (aa 272-364 and 389-452), a SNF2 family N-terminal domain (aa 484-763) and a C-terminal helicase domain (aa 792-943). There are at least 30 Ser/Thr phosphorylation sites. Over aa 1531-1710, human CHD1 shares 92% aa identity with mouse CHD1.