Human CHD7 Alexa Fluor® 594-conjugated Antibody

Antigen Affinity-purified Polyclonal Sheep IgG
Catalog Number: AF7350T
100 µg

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human CHD7 in direct ELISAs and Western blots.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	*E. coli*-derived recombinant human CHD7 Ala263-Gln457 Accession # Q9P2D1
Conjugate	Alexa Fluor 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

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.*

Western Blot	Optimal dilution of this antibody should be experimentally determined.
Immunocytochemistry	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

CHD7 (Chromohelicase/ATPase DNA-binding protein 7) is a 350 kDa member of the third subgroup in the SNF2/RAD54 helicase family of proteins. It is an ATP-dependent chromatin remodeling factor that also binds histones (H3 at Lys4) and influences transcription. CHD7 binds more that 10,000 sites on chromatin, particularly in locations associated with gene enhancement. Notably, CHD7 is most associated with the nervous system, and is found in embryonic hypothalamus (GnRH neurons), olfactory epithelium and spinal cord, and adult preoptic hypothalamus plus hippocampus. Human CHD7 is 2997 amino acids (aa) in length. It contains consecutive Gln-, Pro- and Lys-rich regions (aa 151-718), two Chromo (chromatin-organizer-modifer) domains (aa 800-947), a helicase ATP-binding domain (aa 980-1154), a C-terminal helicase domain (aa 1294-1464), one coiled-coil region (aa 2410-2431) and two BRK domains (aa 2562-2604 and 2642-2686). There are at least seven utilized Ser/Thr phosphorylation sites, and three potential isoform variants. One isoform contains a 12 aa substitution for aa 1127-2997, a second 145 kDa isoform shows a deletion of aa 573-2621, while a third isoform contains a 15 aa insertion after Ser698. CHD7 is reported to bind to subgroup three member CHD8. Over aa 263-457, human CHD7 shares 96% aa identity with mouse CHD7.

PRODUCT SPECIFIC NOTICES

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