Datasheet for ABIN5687549

anti-Choline Acetyltransferase antibody

1 Publication

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Overview

Quantity:	0.1 mL
Target:	Choline Acetyltransferase (CHAT)
Reactivity:	Human, Mouse, Rat, Chicken, Goat
Host:	Goat
Clonality:	Polyclonal
Conjugate:	This Choline Acetyltransferase antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

Product Details

Immunogen:	Native choline acetyltransferase purified from human placenta.
Specificity:	Specific for the ~ 70k choline acetyltransferase protein
Purification:	Affinity Purified

Target Details

Target:	Choline Acetyltransferase (CHAT)
Alternative Name:	Choline Acetyltransferase (CHAT Products)
Background:	Choline acetyltransferase is a neuronal enzyme which catalyzes the reaction between Acetyl CoA and choline resulting in the formation of acetylcholine. It is therefore found primarily in cholinergic neurons making it a valuable marker for diseases associated with decreased cholinergic function such as Schizophrenia, Alzheimer disease (AD) and Down syndrome (Holt et al. 1999). Decreased choline acetyltransferase activity in particular has been shown in

Target Details

	Schizophrenic subjects (Karson et al 1993). It has furthermore been demonstrated that in patients with AD, there are significantly lower levels of cortical ChAT that correlate with severity of the disease as measured by loss of neuropsychological function (Baskin et al. 1999).
Molecular Weight:	70 kDa
Gene ID:	1103
UniProt:	P28329
Pathways:	Skeletal Muscle Fiber Development

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	100 µLin 10 mM HEPES (pH 7.5), 150 mM NaCl, 100 µg per mL BSA and 50 % glycerol.
Storage:	-20 °C
Storage Comment:	Choline Acetyltransferase antibody can be stored at -20°C and is stable at -20°C for at least 1 year.

Publications

Product cited in:	Gonzales, Pare, Wichmann, Smith: "GABAergic inputs from direct and indirect striatal projection neurons onto cholinergic interneurons in the primate putamen." in: **The Journal of comparative neurology**, Vol. 521, Issue 11, pp. 2502-22, (2014) (PubMed).