Datasheet for ABIN951492

anti-Choline Acetyltransferase antibody

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Overview

Quantity:	0.1 mg
Target:	Choline Acetyltransferase (CHAT)
Reactivity:	Human, Mouse
Host:	Chicken
Clonality:	Polyclonal
Conjugate:	This Choline Acetyltransferase antibody is un-conjugated
Application:	Immunofluorescence (IF), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	Synthetic peptide KLH conjugated corresponding to a region of the Choline Acetyltransferase gene product shared between the Human (P28329) and Mouse (Q03059) sequences. After repeated injections, immune eggs were collected, the IgY fractions were purified from the yolks.
Isotype:	Ig Fraction
Specificity:	Recognizes Choline Acetyltransferase (ChAT).
Purification:	Affinity Chromatography using a peptide column.

Target Details

Target:	Choline Acetyltransferase (CHAT)
Alternative Name:	CHAT (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

Target Details

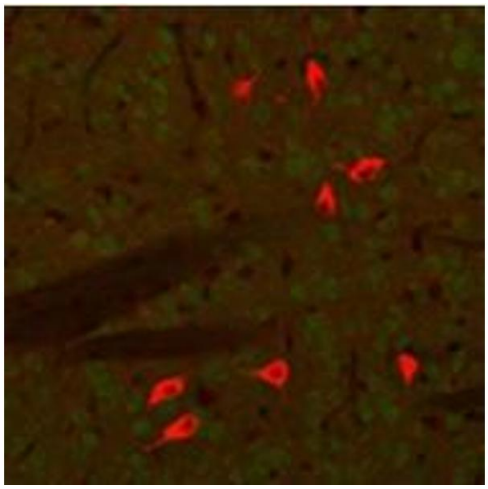
	cholinergic neurons making it a valuable marker for diseases associated with decreased cholinergic function such as Schizophrenia, Alzheimer disease (AD) and Down syndrome (Holt et al. 1999). Decreased choline acetyltransferase activity in particular has been shown in Schizophrenic subjects (Karson et 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).Synonyms: CHOACTase, ChAT, Choline O-acetyltransferase, Choline acetylase, EC=2.3.1.6
Gene ID:	1103
NCBI Accession:	NP_001136401
Pathways:	Skeletal Muscle Fiber Development

Application Details

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

Handling

Concentration:	0.1 mg/mL
Buffer:	10 mM PBS, pH 7.2 containing 0.02 % Sodium Azide as preservative.
Preservative:	Sodium azide
Precaution of Use:	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C
Storage Comment:	Store the antibody undiluted in the dark at 2-8 °C.



Immunofluorescence

Image 1. Immunofluorescence using ChAT Antibody : A tissue Section throught an adult Mouse brain showing ChAT (Red staining) in cholinergic neurons of the caudate-putamen nucleus. The pale green staining is autofluorescence of Green Fluorescent Protein (GFP) in this transgenic animal.