

TTBK1 Antibody

Catalog No: #43428

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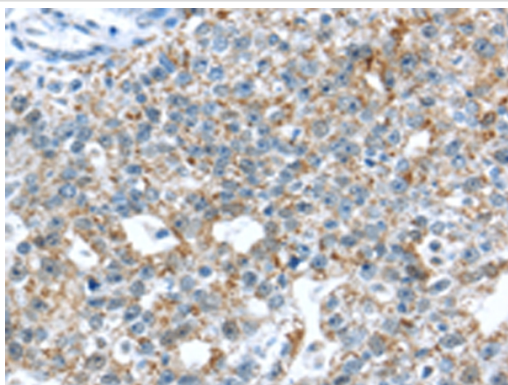
Description

Product Name	TTBK1 Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antigen affinity purification.
Applications	IHC
Species Reactivity	Hu
Specificity	The antibody detects endogenous levels of total TTBK1 protein.
Immunogen Description	Synthetic peptide of human TTBK1
Target Name	TTBK1
Other Names	BDTK
Accession No.	Swiss-Prot#: Q5TCY1 Gene ID: 84630
Uniprot	Q5TCY1
GeneID	84630;
Concentration	2.3mg/ml
Formulation	Rabbit IgG in pH7.4 PBS, 0.05% NaN ₃ , 40% Glycerol.
Storage	Store at -20°C

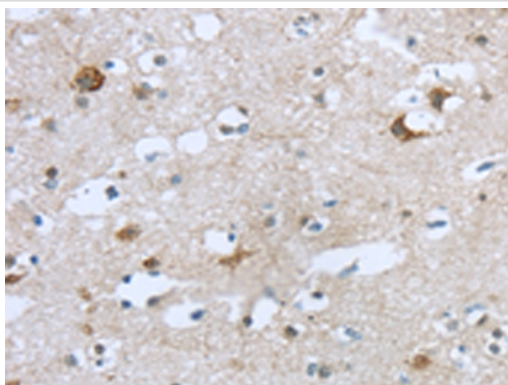
Application Details

Immunohistochemistry: 1:20-1:100

Images



Immunohistochemical analysis of paraffin-embedded Human breast cancer tissue using #43428 at dilution 1/35.



Immunohistochemical analysis of paraffin-embedded Human brain tissue using #43428 at dilution 1/35.

Background

TTBK1 (tau tubulin kinase 1), also known as BDK (brain-derived tau kinase), is a 1,321 amino acid protein that contains one protein kinase domain and belongs to the serine/threonine protein kinase family. Localized to the cytoplasm and expressed at high levels in brain and at lower levels in testis and spinal cord, TTBK1 functions as a serine/threonine kinase that can phosphorylate Tau (a protein involved in tubulin polymerization) on threonine, tyrosine and serine residues. Specifically, TTBK1 uses divalent cations, such as magnesium and manganese, to catalyze the ATP-dependent transfer of a phosphate group onto Tau, creating a phosphoprotein and ADP. Phosphorylation of Tau causes its aggregation and subsequent loss of function, suggesting an important role for TTBK1 in the control of tubulin dynamics.?

Note: This product is for in vitro research use only