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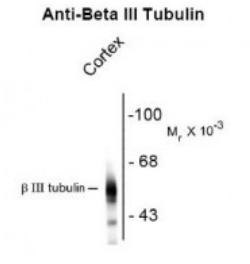
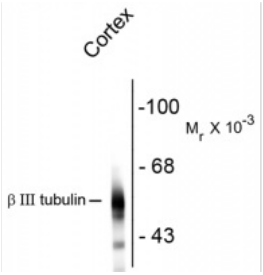
Beta III Tubulin Antibody [AA10]

CATALOG NUMBER: 50-261



Western blot of rat cortex lysate showing specific immunolabeling of the ~55k beta III tubulin protein.



Western blot of rat cortex lysate showing specific immunolabeling of the ~55k beta III tubulin protein.

Specifications

SPECIES REACTIVITY:	Mammal
TESTED APPLICATIONS:	IHC, WB
USER NOTE:	Optimal dilutions for each application to be determined by the researcher.
PREDICTED MOLECULAR WEIGHT:	55
SPECIFICITY:	Specific for the ~55kDa beta III tubulin protein. This clone is similar to the monoclonal antibody Tuj1.
IMMUNOGEN:	Synthetic peptide corresponding to beta III tubulin.
HOST SPECIES:	Mouse

Properties

PURIFICATION:	Protein G purified
PHYSICAL STATE:	Liquid
BUFFER:	100 uL in 10 mM HEPES (pH 7.5), 150 mM NaCl, 100 ug per mL BSA and 50% glycerol.
STORAGE CONDITIONS:	Beta III Tubulin antibody can be stored at -20˚C and is stable at -20˚C for at least 1 year.
CLONALITY:	Monoclonal
ISOTYPE:	IgG
CONJUGATE:	Unconjugated

Additional Info

ALTERNATE NAMES:	Neuron-specific class III beta-tubulin,
ACCESSION NO.:	Q4QRB4
PROTEIN GI NO.:	81918226
OFFICIAL SYMBOL:	Tubb3
GENE ID:	246118

Background

BACKGROUND:	Tubulin is the major constituent of microtubules, existing as a heterodimer of the alpha and beta subunits. The beta III isoform of tubulin is found almost exclusively in neuronal processes of adult tissues and is therefore an excellent marker for neurons. Neuron specific, posttranslational modifications within the C-terminal domain of beta III tubulin have been shown to be developmentally regulated suggesting that they may serve to modulate the interaction of tubulin with microtubule associated proteins (Lee et al., 1990). Additionally, beta III tubulin has been found to be highly expressed in cancer cells such as small cell lung cancer, large cell neuroendocrine carcinoma and adenocarcinomas and is correlated with an increasing histological degree of malignancy (Katsetos et al., 2003)
REFERENCES:	1) Lee MK, Rebhun LI, Frankfurter A (1990) Posttranslational modification of class III beta tubulin. Proc Natl Acad Sci USA 87(18): 7195-7199.
	2) Katsetos CD, Herman MM, Mork SJ (2003) Class III beta tubulin in human development and cancer. Cell Motil Cytoskeleton 55(2):77-96.

FOR RESEARCH USE ONLY

December 13, 2016