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Product datasheet for TA355329

p57 Kip2 (CDKN1C) Mouse Monoclonal Antibody [Clone ID: 25B2]

Product data:

Product Type:	Primary Antibodies
Clone Name:	25B2
Applications:	IHC
Recommended Dilution:	1:50
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Prokaryotic recombinant antigen corresponding to a 116 amino acid region of the N-terminus of the p57 protein
Specificity:	Human p57 protein, also known as Kip2 protein
Formulation:	Liquid tissue culture supernatant containing sodium azide as a preservative
Conjugation:	Unconjugated
Storage:	Store at 2-8°C
Stability:	12 months
Gene Name:	cyclin-dependent kinase inhibitor 1C
Database Link:	Entrez Gene 1028 Human P49918

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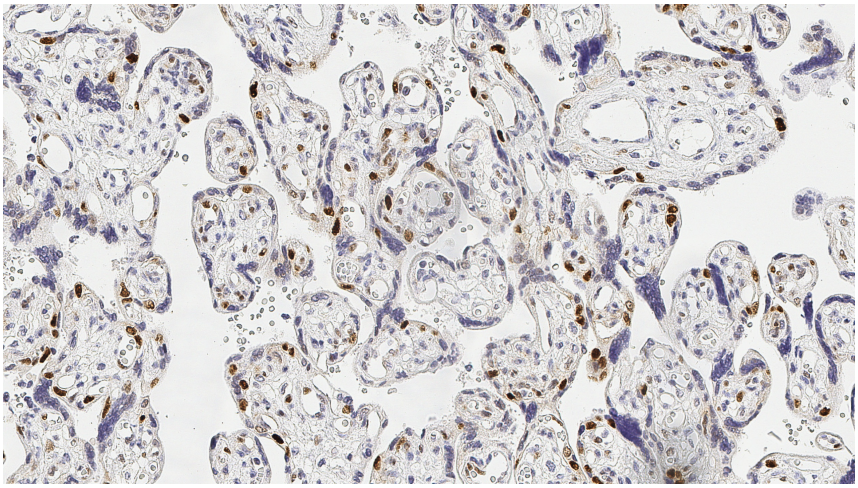
Background: Cyclin-dependent kinases are positive regulators of cell proliferation. p57 protein acts as a tumor suppressor to counter this. It is closely related to other CDKIs such as p21 protein (CIP1) and p27 protein (Kip1) as they share a common structural N-terminal domain for binding to CDK/cyclin complexes and inhibiting their kinase activity. Human p57 protein is found on chromosome 11p15.5, a region which is reported to be a common site for loss of heterozygosity in certain sarcomas, Wilms' tumors and tumors associated with the Beckwith-Wiedemann syndrome. There is increasing interest in p57 as a marker in gestational disease. Gestational trophoblastic disease refers to a spectrum of proliferative disorders of the placental trophoblast, with a wide range of histologic appearances and clinical behaviors. Recent developments in changes in the criteria for histologic diagnosis of these lesions due to earlier clinical diagnosis have been reviewed Hui P et al., Advantages in Anatomical Pathology. 12(3): 116-125 (2005) and the ability to make more accurate diagnoses due to the introduction of newer antibodies such as p57 is discussed.

Synonyms: BWCR; BWS; KIP2; p57; p57KIP2; WBS

Product images:



Human placenta: immunohistochemical staining for p57 protein. Note nuclear staining for cytotrophoblast and stromal cells of the villi. p57: clone 25B2