

Rabbit Anti-CRX (CORD2) [EP323]: RM0363RTU7

Intended Use: For Research Use Only

Description: The cone-rod homeobox protein CRX, encoded by CORD2 is a transcription factor proposed as a regulator of photoreceptor differentiation, normal retina development, and pineal function. CRX is expressed in uncommitted proliferating cells and cells committed to the bipolar lineage in as early as 10.5 weeks gestation in the developing human eye. Mutations in CORD2 are associated with retinal degenerative diseases including cone-rod dystrophies and Leber congenital amaurosis, a disorder of the retina resulting in severe visual impairment. In the mature eye, CRX is highly expressed in photoreceptor cells while moderately in bipolar cells. Elevated and extensive nuclear CRX expression was observed in all retinoblastoma cell lines and >95% of retinoblastoma cells. CRX was identified in undifferentiated regions as well as rosettes and fletettes, which are features of tumor differentiation. Additionally, nuclear CRX staining was also observed in >90% pineal parenchymal tumors. CRX was reported as a sensitive and specific marker for retinoblastoma and pineal parenchymal tumors when used as part of a panel comprising of Synaptophysin and GFAP.

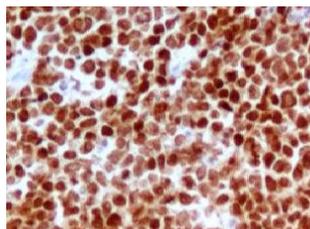
Specifications

Clone: EP323
 Source: Rabbit
 Isotype: IgG
 Reactivity: Human
 Localization: Nucleus
 Formulation: Antibody in PBS pH7.5, containing 0.2% BSA and <0.1% sodium azide (NaN3)
 Storage: Store at 2°- 8°C
 Applications: IHC
 Package:

Description	Catalog No.	Size
CRX (CORD2) Prediluted	RM0363RTU7	7 ml

IHC Procedure

Positive Control: Retina, retinoblastoma
 Concentrated Dilution: Prediluted
 Pretreatment: Citrate pH6.0 or EDTA pH8.0, 15 minutes using Pressure Cooker, or 30-60 minutes using water bath at 95°-99°C
 Incubation Time and Temp: 30-60 minutes @ RT
 Detection: Refer to the detection system manual
 * Result should be confirmed by an established diagnostic procedure.



FFPE human retinoblastoma stained with anti-CRX using DAB

References:

1. CRX/OTX3: a useful marker in the differential diagnosis of tumors of the pineal region and indicator of photoreceptor differentiation in medulloblastomas and atypical teratoid rhabdoid tumors. Gielen GH, et al. Appl Immunohistochem Mol Morphol. May;21(3):248-53, 2013.
2. Immunohistochemical expression of CRX in extracranial malignant small round cell tumors. Terry J, et al. Am J Surg Pathol. Aug;36(8):1165-9, 2012.