

Rabbit Anti-eIF4E [EP280]: RM0368

Intended Use: For Research Use Only

Description: Eukaryotic initiation factor 4E (eIF4E), a 25-kDa cap binding protein, delivers cellular mRNAs to the eIF4F translation initiation complex by binding the 5'-cap structure of these mRNAs. Studies suggested that increased expression and activity of eIF4E might be one of the key effects on oncogene expression, resulting in neoplastic transformation. eIF4E is overexpressed in many types of cancers, including carcinoma of the breast, colon, bladder, cervix, lung, and squamous cell carcinoma of the head and neck. Increased expression of eIF4E has been associated with tumor progression in breast cancer, prostate cancer, and acute myeloid leukemia (AML). High expression of eIF4E is associated with adverse tumor characteristics and predicts poor breast cancer-specific survival.

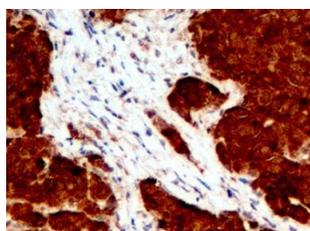
Specifications

Clone: EP280
 Source: Rabbit
 Isotype: IgG
 Reactivity: Human
 Localization: Nucleus, cytoplasm
 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
eIF4E Concentrated	RM0368	1 ml

IHC Procedure

Positive Control: Breast carcinoma
 Concentrated Dilution: 50-200
 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 breast carcinoma tissue stained with anti-eIF4E using DAB

References:

1. Expression of translation initiation factors eIF-4E and eIF-2alpha and a potential physiologic role of continuous protein synthesis in human platelets. Rosenwald IB, et al. Thromb Haemost. Jan;85(1):142-51, 2001.
2. Eukaryotic initiation factor-4E in superficial and muscle invasive bladder cancer and its correlation with vascular endothelial growth factor expression and tumour progression. Crew JP, et al. Br J Cancer. Jan;82(1):161-6, 2000.
3. Maskin is a CPEB-associated factor that transiently interacts with eIF-4E. Stebbins-Boaz B, et al. Mol Cell. Dec;4(6):1017-27, 1999.