

Rabbit Anti-eIF4E [MD28R]: RM0331

Intended Use: For Research Use Only

Description: Eukaryotic initiation factor 4E (eIF-4E), 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 eIF-4E might be one of the key effects on oncogene expression, resulting in neoplastic transformation. eIF-4E 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 eIF-4E 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.

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Specifications:

Clone: MD28R
Source: Rabbit
Isotype: IgG
Reactivity: Human, mouse, rat, monkey
Localization: Nucleus, cytoplasm
Formulation: Antibody in PBS pH7.4, containing BSA, glycerol, and ≤0.09% sodium azide (NaN₃).
Storage: Store at 2° - 8°C. For longer periods of storage, store at -20°C. Avoid repeat freeze-thaw cycles
Applications: IHC
Package:

Description	Catalog No.	Size
eIF4E Concentrated	RM0331	1 ml

IHC Procedure*:

Positive Control Tissue: Breast cancer
Concentrated Dilution: 50-100
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.