

EIF4E3 Monoclonal antibody

Catalog Number: 68171-1-Ig

Basic Information

Catalog Number: 68171-1-Ig	GenBank Accession Number: BC031289	Purification Method: Protein A purification
Size: 1000 µg/ml	GeneID (NCBI): 317649	CloneNo.: 2E9C4
Source: Mouse	UNIPROT ID: Q8N5X7	Recommended Dilutions: WB 1:2000-1:10000 IHC 1:250-1:1000
Isotype: IgG2b	Full Name: eukaryotic translation initiation factor 4E family member 3	
Immunogen Catalog Number: AG11056	Calculated MW: 24 kDa	
	Observed MW: 24-30 kDa	

Applications

Tested Applications: IHC, WB, ELISA	Positive Controls:
Species Specificity: human, rat, mouse	WB : HEK-293 cells, MCF-7 cells, MOLT-4 cells, Jurkat cells, THP-1 cells, K-562 cells
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	IHC : rat colon tissue, mouse colon tissue

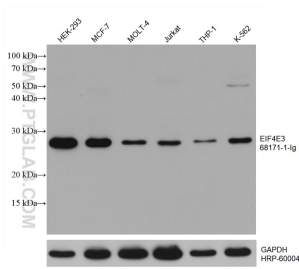
Background Information

EIF4E3, also known as Eukaryotic translation initiation factor 4E type 3, is a 224 amino acid protein, which recognizes and binds the 7-methylguanosine-containing mRNA cap during an early step in the initiation of protein synthesis. EIF4E3 acts as a tissue-specific tumor suppressor. For instance, eIF4E3 inhibits expression of both mRNA export and translation targets of eIF4E1, consistent with its nuclear and cytoplasmic localization. Importantly, eIF4E3 overexpression represses oncogenic transformation. (PMID: 23587918).

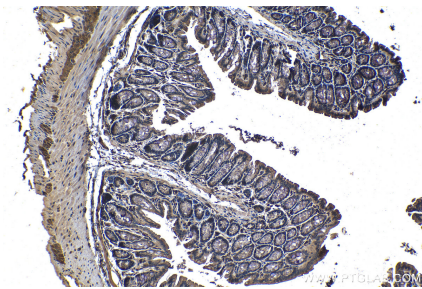
Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

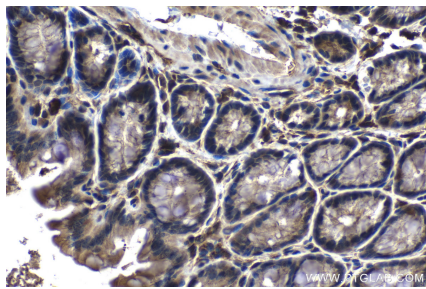
Selected Validation Data



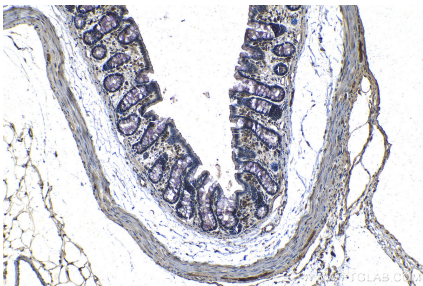
Various lysates were subjected to SDS PAGE followed by western blot with 68171-1-Ig (EIF4E3 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated GAPDH Monoclonal antibody (HRP-60004) as loading control.



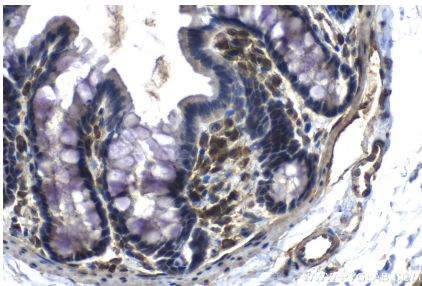
Immunohistochemical analysis of paraffin-embedded mouse colon tissue slide using 68171-1-Ig (EIF4E3 antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse colon tissue slide using 68171-1-Ig (EIF4E3 antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded rat colon tissue slide using 68171-1-Ig (EIF4E3 antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded rat colon tissue slide using 68171-1-Ig (EIF4E3 antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).