CPEB4 | ***Validation File***

TARGET mCPEB4 (Cytoplasmic polyadenylation element-binding protein 4)
CLONE NAME ERE93C
DESCRIPTION mouse monoclonal
ANTIGEN USED HIS-GST-mCPEB4 (1-375aa) recombinant protein
ISOTYPE IgG1
SPECIES REACTIVITY mouse and human
LOCALIZATION nucleus and cytoplasm
POSITIVE CONTROL mouse brain
STORAGE BUFFER Preservative: Sodium Azide. Constituents: Tissue culture supernatant
Purified Ab: PBS plus 1%BSA and 0.02% sodium azide. Concentration: 1mg/ml
STORAGE Aliquot and store at 4C. Do not freeze

Recommended Inconclusive Not Recommended Not Tested

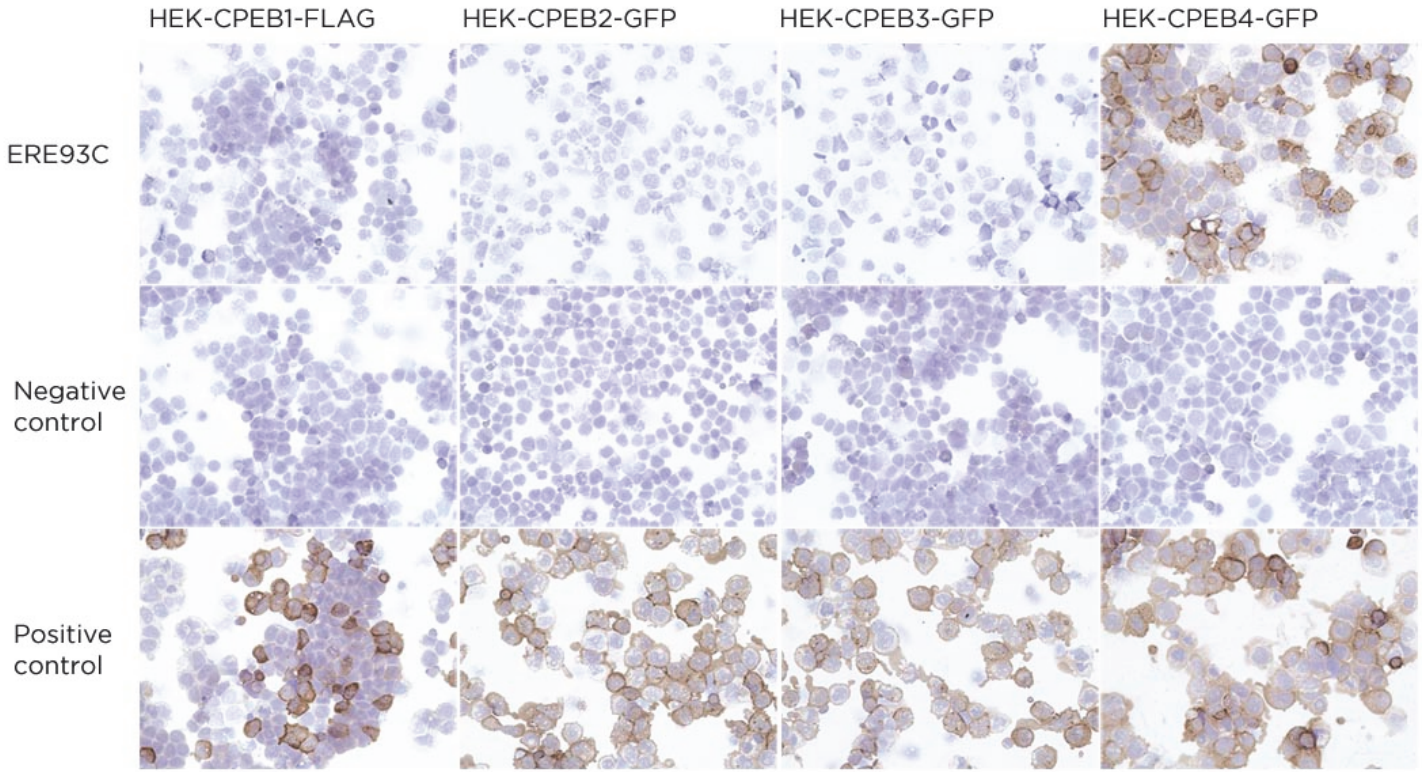
APPLICATIONS

| ICC | ***Immunocytochemistry***

ERE93C mAb is able to detect human and mouse CPEB4 protein in immunocytochemistry

DILUTION no dilution (neat supernatant)
1:200 purified antibody (1mg/ml)

To confirm that ERE93C recognizes mCPEB4 immunohistochemistry on frozen cytospins preparations of GFP or Flag-tagged mCPEB1, mCPEB2, mCPEB3 and mCPEB4 expressed in HEK293T was performed. Anti-Flag and anti-GFP antibodies were used as positive controls.



| WB | ***Western Blotting***

ERE93C mAb is able to detect human and mouse CPEB4 protein by WB.

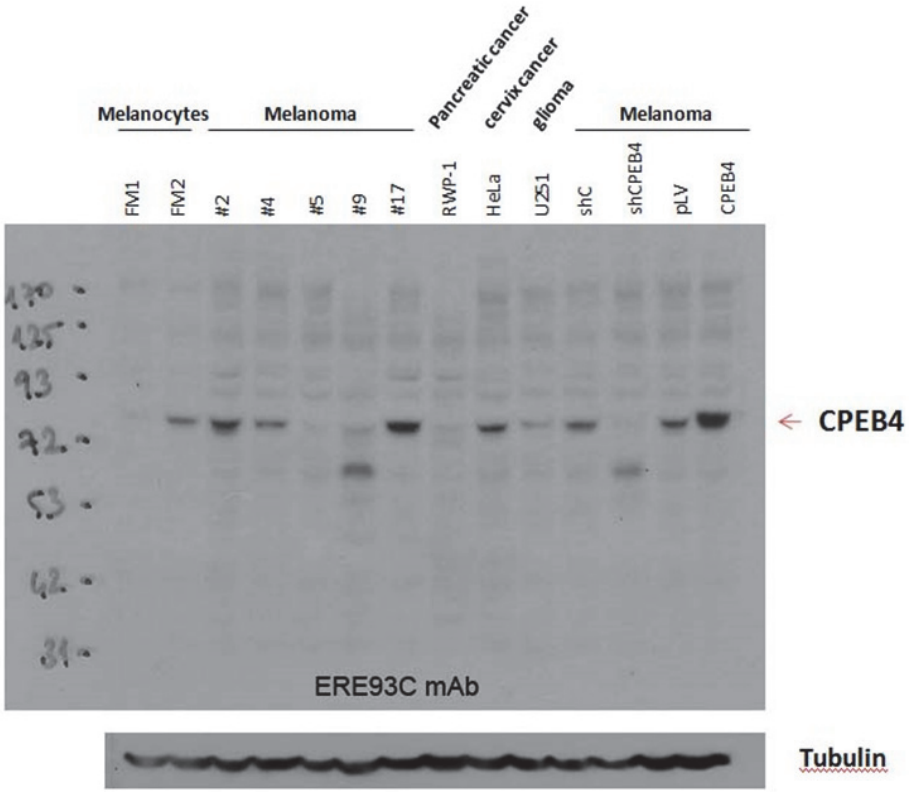
DILUTION no dilution (neat supernatant)
1:500 purified antibody (1mg/ml)

Predicted molecular weight: ***80kDa***
Observed molecular weight: ***80kDa***

LANES

Lane 1 Foreskin melanocytes (prep 1)
Lane 2 Foreskin melanocytes (prep 2)
Lane 3 Melanoma cell line SK-Mel-5
Lane 4 Melanoma cell line SK-Mel-28
Lane 5 Melanoma cell line SK-Mel-29
Lane 6 Melanoma cell line SK-Mel-103
Lane 7 Melanoma cell line UACC-62
Lane 8 RWP-1 cell line (pancreatic cancer)
Lane 9 HeLa cell line (cervical cancer)
Lane 10 U251 cell line (glioma)
Lane 11 Melanoma cell line SK-Mel-28 transduced with pLK.O1_shControl
Lane 12 Melanoma cell line SK-Mel-28 transduced with pLK.O1_shCPEB4
Lane 13 Melanoma cell line SK-Mel-28 transduced with pLV empty vector
Lane 14 Melanoma cell line SK-Mel-28 transduced with pLV-CPEB4

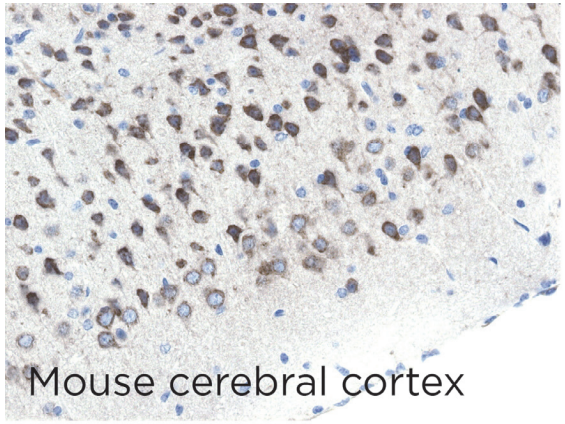
Image provided by Eva Pérez.

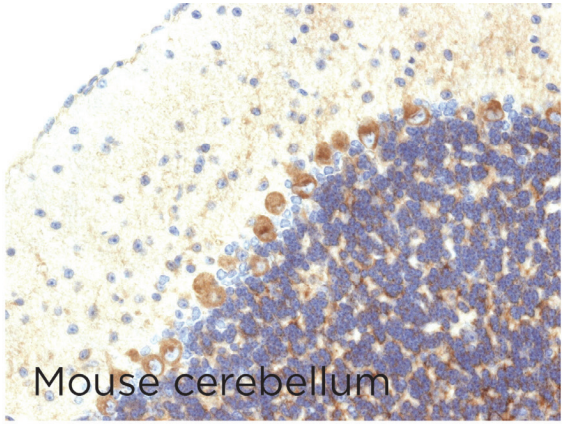


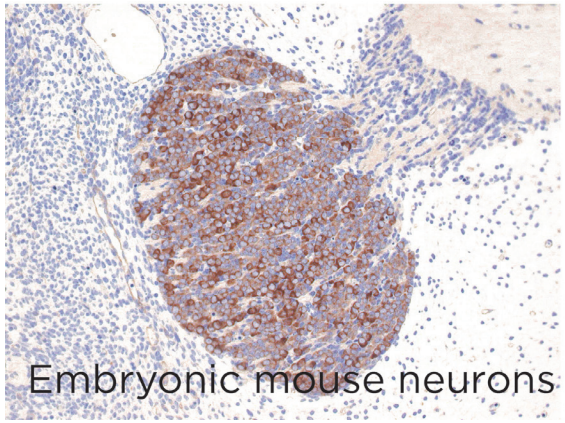
| M-IHC-P | ***Immunohistochemistry (paraffin)***

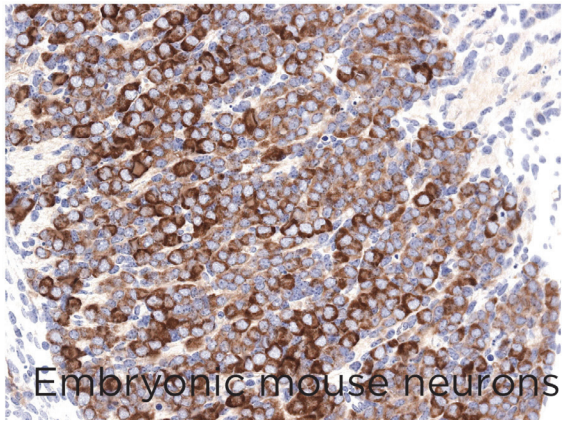
Antibody ERE93C can be used to detect mouse CPEB4 protein in paraffin tissues

TISSUE SAMPLE mouse brain and mouse embryonic tissues.
DILUTION 1:1500 purified antibody (1mg/ml)
ANT. RETRIEVAL CC1 D5+OR
DETECTION SYSTEM Ventana





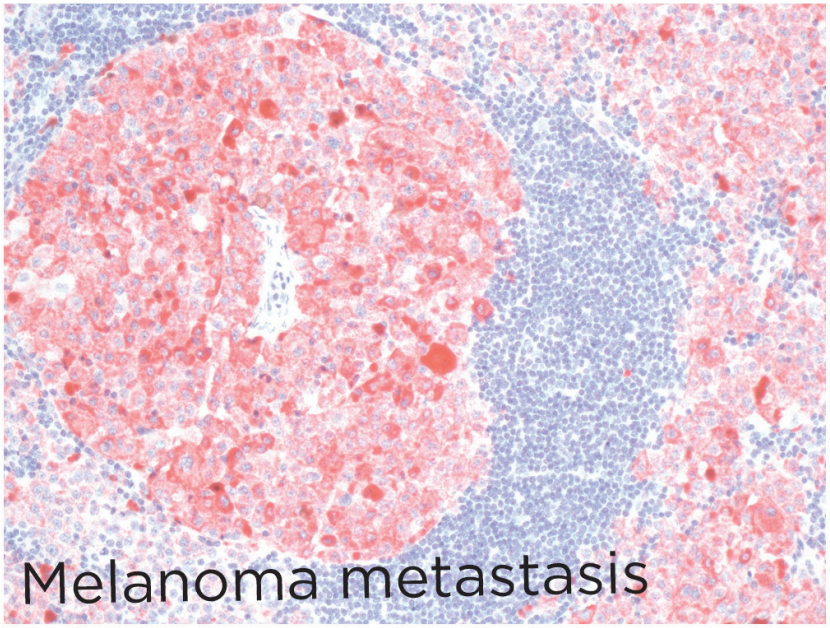


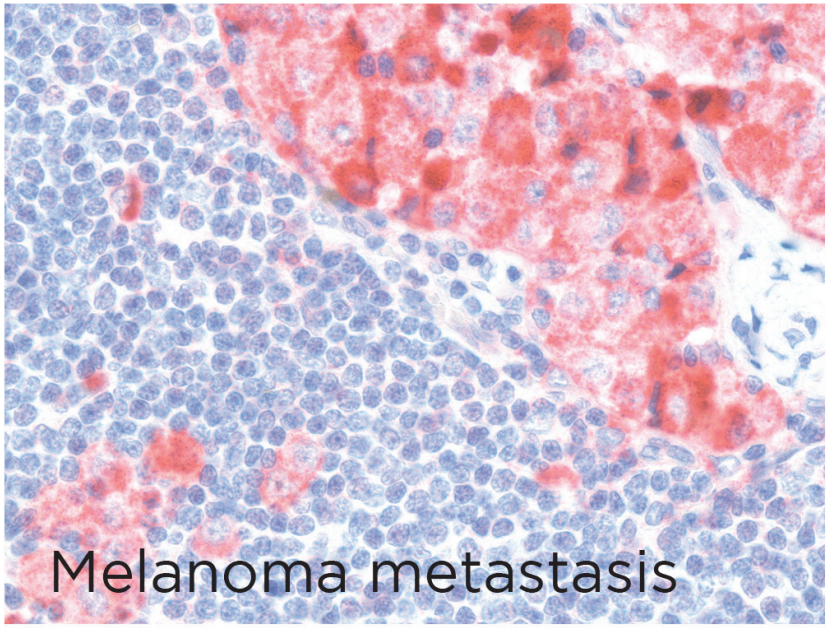


| IF | ***Immunohistochemistry (paraffin)***

Antibody ERE93C can be used to detect human CPEB4 protein by immunofluorescence

TISSUE SAMPLE melanoma metastasis (lymph node)
DILUTION purified antibody (1mg/ml)
ANT. RETRIEVAL 20 minutes ER2 (Tris-EDTA)

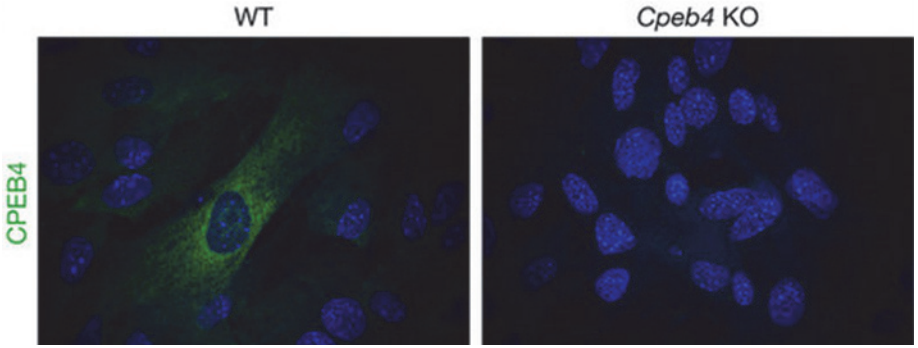




| IF | ***Immunofluorescence***

Antibody ERE93C can be used to detect mouse CPEB4 protein by immunofluorescence

TISSUE SAMPLE Mefs
DILUTION no dilution (neat supernatant)



| IP | ***Immunoprecipitation*** Not done

| IHC-F | ***Immunohistochemistry (frozen)*** Not done

| FC | ***Flow Cytometry*** Not done

REFERENCES

Lineage-specific roles of the cytoplasmic polyadenylation factor CPEB4 in the regulation of melanoma drivers. Pérez-Guijarro E, Karras P, Cifdaloz M, Martínez-Herranz R, Cañón E, Graña O, Horcajada-Reales C, Alonso-Curbelo D, Calvo TG, Gómez-López G, Bellora N, Riveiro-Falkenbach E, Ortiz-Romero PL, Rodríguez-Peralto JL, Maestre L, Roncador G, de Agustín Asensio JC, Goding CR, Eyras E, Megías D, Méndez R, Soengas MS. Nat Commun. 2016 Nov 18; 7:13418.