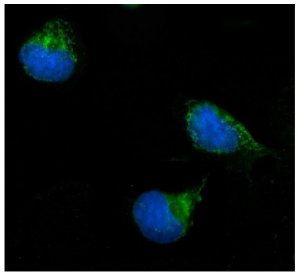
# ERAB Antibody / HSD17B10 (R31749)

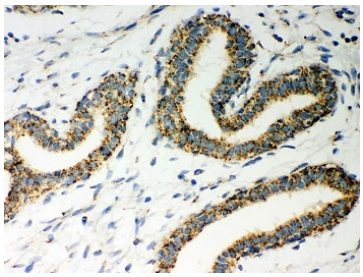
| Catalog No. | Formulation | Size |
|---|---|---|
| R31749 | 0.5mg/ml if reconstituted with 0.2ml sterile DI water | 100 ug |

**Bulk quote request**

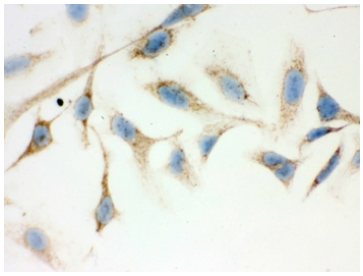
| | |
|---|---|
| **Availability** | 1-3 business days |
| **Species Reactivity** | Human |
| **Format** | Antigen affinity purified |
| **Host** | Rabbit |
| **Clonality** | Polyclonal (rabbit origin) |
| **Isotype** | Rabbit IgG |
| **Purity** | Antigen affinity |
| **Buffer** | Lyophilized from 1X PBS with 2.5% BSA, 0.025% sodium azide |
| **Gene ID** | 3028 |
| **Localization** | Cytoplasmic |
| **Applications** | Western Blot : 0.5-1ug/ml<br>Immunohistochemistry (FFPE) : 0.5-1ug/ml<br>Immunocytochemistry (FFPE) : 0.5-1ug/ml<br>Flow Cytometry : 1-3ug/million cells<br>Immunofluorescence (FFPE) : 2-4ug/ml |
| **Limitations** | This ERAB antibody is available for research use only. |



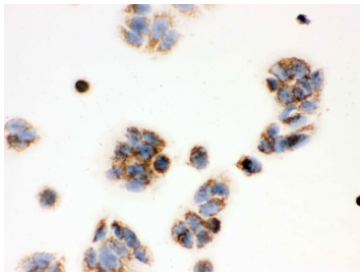
Immunofluorescent staining of FFPE human U-2 OS cells with ERAB antibody (green) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.



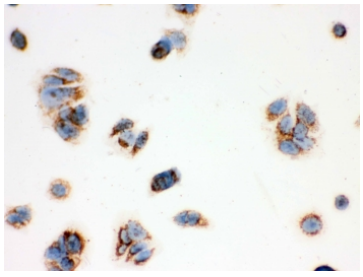
IHC-P: ERAB antibody testing of human breast cancer tissue. HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to testing.



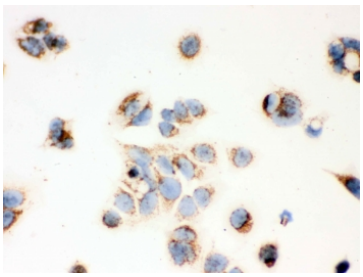
IHC testing of FFPE human HeLa cells with ERAB antibody. HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to testing.



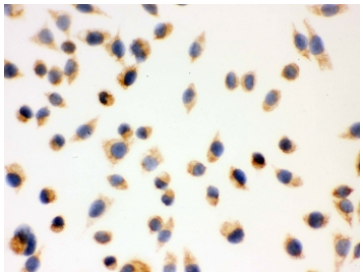
IHC testing of FFPE human MCF7 cells with ERAB antibody. HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to testing.



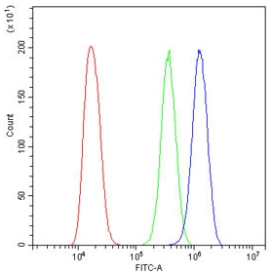
IHC testing of FFPE human MCF7 cells with ERAB antibody. HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to testing.



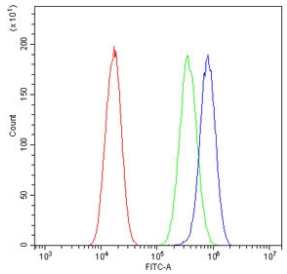
IHC testing of FFPE human MCF7 cells with ERAB antibody. HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to testing.



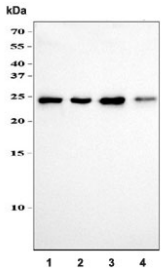
IHC testing of FFPE human SMMC-7721 cells with ERAB antibody. HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to testing.




Flow cytometry testing of human A431 cells with ERAB antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= ERAB antibody.




Flow cytometry testing of human A549 cells with ERAB antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= ERAB antibody.




Western blot testing of human 1) Jurkat, 2) 293T, 3) HeLa and 4) MOLT-4 cell lysate with ERAB antibody. Predicted molecular weight: ~27 kDa.

## Description

ERAB is also known as HSD17B10 or HADH2. This gene encodes 3-hydroxyacyl-CoA dehydrogenase type II, a member of the short-chain dehydrogenase/reductase superfamily. ERAB is a mitochondrial protein that catalyzes the oxidation of a wide variety of fatty acids and steroids, and is a subunit of mitochondrial ribonuclease P, which is involved in tRNA maturation. The protein has been implicated in the development of Alzheimer disease, and mutations in the gene are the cause of 17beta-hydroxysteroid dehydrogenase type 10 (HSD10) deficiency. Several alternatively spliced transcript variants have been identified, but the full-length nature of only two transcript variants has been determined.

## Application Notes

The stated application concentrations are suggested starting amounts. Titration of the ERAB antibody may be required due to differences in protocols and secondary/substrate sensitivity.

## Immunogen

Human partial recombinant protein (AA 48-261) was used as the immunogen for this ERAB antibody.

## Storage

After reconstitution, the ERAB antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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