

Product datasheet

Epithelial-Mesenchymal Transition (Beta Catenin, Vimentin) Western Blot Cocktail ab157392

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Overview

Product name Epithelial-Mesenchymal Transition (Beta Catenin, Vimentin) Western Blot Cocktail

Sample type Cell Lysate

Species reactivity **Reacts with:** Human
Does not react with: Mouse, Rat

Product overview This Epithelial-Mesenchymal Transition (EMT) western blot cocktail is designed to determine the relative abundance of canonical EMT markers. EMT is a process in which a cell transitions from an epithelial-like (attached, polarized) state to a mesenchymal-like (unattached, migratory) state and such transitions occur during development and metastasis. Underlying the morphological cell changes during EMT are transcription factor programs, biochemical cascades and alterations to the cytoskeleton. Beta-Catenin is a transcription factor in the Wnt signaling pathway and is involved in the regulation of cell adhesion; beta-Catenin is typically more abundant in epithelial-like cells. Vimentin is an intermediate filament typically found in non-epithelial and mesenchymal cells. Alpha Smooth Muscle Actin and GAPDH are also included in this cocktail as loading controls (Alpha Smooth Muscle Actin is reported to be more highly expressed in mesenchymal-like cells, but we find it to be widely expressed in transformed cell lines).

These four readouts are easily resolved by western blot given their different molecular weights. Because this western blot cocktail is a mix of rabbit and mouse monoclonal primary antibodies.

A secondary antibody cocktail of HRP conjugated antibodies (anti-mouse and anti-rabbit) is provided.

Expected and observed MWs:

Beta-Catenin 92kDa

Vimentin 54kDa

Smooth Muscle Actin 42kDa

GAPDH 36kDa

Tested applications **Suitable for:** WB

Properties

Storage instructions Store at -20°C. Please refer to protocols.

Components	200 µl
2500X HRP Conjugated Secondary Antibody Cocktail	1 vial
250X EMT WB Cocktail	1 vial

Applications

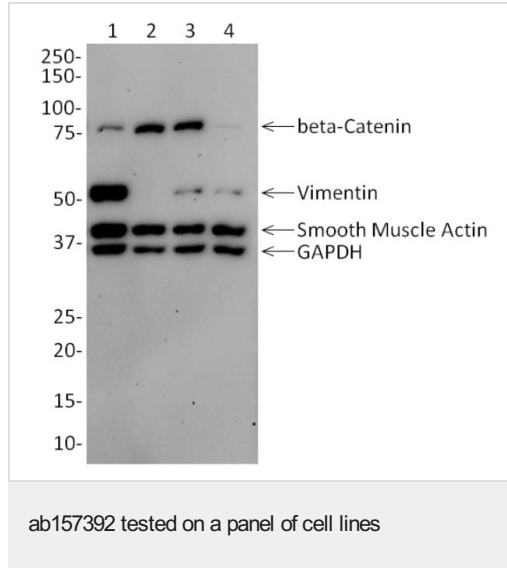
The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab157392 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use at an assay dependent concentration. Expected and observed MWs: Beta-Catenin 92kDa Vimentin 54kDa Smooth Muscle Actin 42kDa GAPDH 36kDa

Images



Primary antibody: all lanes EMT WB cocktail (ab157392) diluted to 1X in 4% milk/PBS.

Lane 1. MDA-MB-231 cell lysate

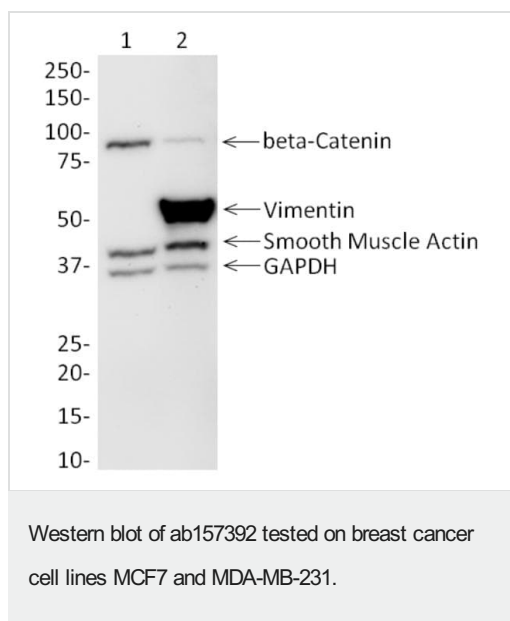
Lane 2. SH SY5Y cell lysate

Lane 3. HeLa cell lysate

Lane 4. Jurkat cell lysate.

All lysates loaded 20 µg per lane. Lysates were generated in RIPA lysis buffer (**ab156034**) and briefly boiled in sample buffer before loading on SDS-PAGE.

Secondary antibody: All lanes using the included HRP Conjugated Secondary Antibody Cocktail (included with ab157392) diluted to 1X in 5% milk/PBS.



MCF7 is epithelial-like and MDA-MB-231 cells are mesenchymal-like based on the relative expression of beta-Catenin and Vimentin between the cell lines.

Primary antibody: all lanes EMT WB cocktail diluted to 1X in 5% milk/PBS.

Lane 1. MCF7 cell lysate

Lane 2. MDA-MB-231 cell lysate

All lysates loaded 20 µg per lane. Lysates were generated in SDS lysis buffer and briefly boiled in sample buffer before loading on SDS-PAGE.

Secondary antibody: All lanes using the included HRP Conjugated Secondary Antibody Cocktail (included with ab157392) diluted to 1X in 5% milk/PBS.

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