FAM3C (D1S2D) XP [®] Rabbit mAb						CHNOLOGY®
Stol					Orders:	877-616-CELL (2355) orders@cellsignal.com
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#		3 Trask Lane Danvers M				lassachusetts 01923 USA
For Research Use Only.	Not for Use in	Diagnostic Proce	edures.			
Applications: WB, IHC-P, IF-IC, FC- FP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 25	Source/Isotype: Rabbit IgG	UniProt ID: #Q92520	Entrez-Gene Id: 10447
Product Usage Information	Ар	plication				Dilution
	We	Western Blotting				1:1000
	Imi	Immunohistochemistry (Paraffin)				1:300
	Imi	Immunofluorescence (Immunocytochemistry)				1:400
	Flo	Flow Cytometry (Fixed/Permeabilized)				1:200
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.				
Specificity / Sensit	seq	FAM3C (D1S2D) XP [®] Rabbit mAb recognizes endogenous levels of total FAM3C protein. Based on the sequence of the immunogenic peptide, the antibody is not expected to cross-react with other FAM3 family members.				
Source / Purification Monoclonal antibody is produced residues surrounding Gly169 of h				d by immunizing animals with a synthetic peptide corresponding to human FAM3C protein.		
Background		FAM3C, also known as ILEI (interleukin-like epithelial-to-mesenchymal transition [EMT] inducer), is a cytokine-like protein and member of the FAM3 family. FAM3C plays an important role in EMT and				

cytokine-like protein and member of the FAM3 family. FAM3C plays an important role in EMT and metastasis during cancer progression in human and mouse cells, and is highly expressed in human cancer (1,2). In colorectal cancer, researchers have indicated that FAM3C is a marker for EMT and tumor progression, and that high expression of FAM3C is predictive of poor prognosis (3). While EMT induction by FAM3C can be independent of TGF-beta, research studies have also shown TGF-beta-dependent regulation of FAM3C expression at the translational level in mouse and human cells (4,5).

FAM3C has also been linked to regulation of osteoblast differentiation (6), and to accumulation of amyloid beta plaques in Alzheimer's disease (7). FAM3C exists in monomeric and in homodimeric form, and research shows that FAM3C homodimers contain its EMT-inducing and tumor promoting activity (8).

 Background References
 1. Waerner, T. et al. (2006) Cancer Cell 10, 227-39.

 2. Lahsnig, C. et al. (2009) Oncogene 28, 638-50.
 3. Gao, Z.H. et al. (2014) Histopathology 65, 527-38.

 4. Chaudhury, A. et al. (2010) Nat Cell Biol 12, 286-93.
 5. Song, Q. et al. (2014) Tumour Biol 35, 1377-82.

 6. Bendre, A. et al. Differentiation 93, 50-57.
 7. Liu, L. et al. (2016) Neuroscience 330, 236-46.

 8. Kral, M. et al. (2017) FEBS J 284, 3484-3505.

Species Reactivity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).
Western Blot Buffer	IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.
Applications Key	WB: Western Blotting IHC-P: Immunohistochemistry (Paraffin) IF-IC: Immunofluorescence (Immunocytochemistry) FC-FP: Flow Cytometry (Fixed/Permeabilized)
Cross-Reactivity Key	 H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected

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