

## Product datasheet for **AM05373PU-N**

### **CYP3A7-CYP3A51P Mouse Monoclonal Antibody [Clone ID: F19 P2 H2]**

#### **Product data:**

<b>Product Type:</b>	Primary Antibodies
<b>Clone Name:</b>	F19 P2 H2
<b>Applications:</b>	ELISA, IHC, WB
<b>Recommended Dilution:</b>	ELISA. Western Blot: 1 - 2 µg/ml. Immunohistochemistry on paraffin sections: 1 - 5 µg/ml. When used in conjunction with CYP3A5, can differentiate between the CYP3A family members, 3A5 and 3A7.
<b>Reactivity:</b>	Human
<b>Host:</b>	Mouse
<b>Isotype:</b>	IgG1
<b>Clonality:</b>	Monoclonal
<b>Immunogen:</b>	Hybridoma produced by the fusion of splenocytes from BALB/c mice immunized with a synthetic peptide derived from the Cterminus of the human CYP3A7 protein and mouse myeloma Ag8563 cells.
<b>Specificity:</b>	This antibody reacts to Cytochrome P450 3A7.
<b>Formulation:</b>	Phosphate buffered saline with 0.08% sodium azide State: Purified State: Liquid purified Ig
<b>Concentration:</b>	lot specific
<b>Conjugation:</b>	Unconjugated
<b>Storage:</b>	The antibody can be shipped at ambient temperature. Store (in aliquots) at -20°C only. Avoid repeated freezing and thawing.
<b>Stability:</b>	Shelf life: one year from despatch.
<b>Gene Name:</b>	CYP3A7-CYP3A51P readthrough
<b>Database Link:</b>	<a href="#">Entrez Gene 100861540 Human P24462</a>



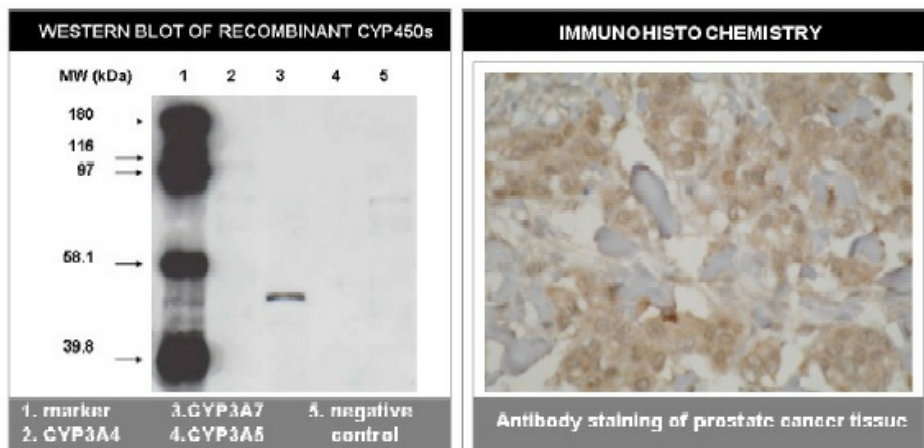
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**Background:**

CYP3A genes encode monooxygenases, enzymes which catalyze drug metabolism and the synthesis of cholesterol, steroids and other lipids. CYP3A (cytochrome P450, family 3, subfamily A), the most abundant P450 enzyme in human liver, is responsible for the metabolism of more than 50% of all clinical drugs. CYP3A members localize in organs that associate with drug disposition, including the liver, gastrointestinal tract and kidney. The CYP3A cluster consists of four genes: CYP3A43, CYP3A4, CYP3A7 and CYP3A5, and two pseudogenes: CYP3A5P1 and CYP3A5P2. The CYP3A cluster maps to gene locus 7q21.3-q22.1.

**Synonyms:**

Cytochrome P450 3A7, CYP3A7, Cytochrome P450-HFLA

**Product images:**

Left: Western blot analysis using CYP3A7 antibody on various recombinant CYP450 proteins. Right: Immunohistochemistry staining of prostate cancer tissue using CYP3A7 antibody.